



# FINAL SAMPLING REPORT

Drinking Well Sampling Event Former Camp Butner, NC

Prepared by:

U.S. Army Corps of Engineers Wilmington District 69 Darlington Avenue Wilmington, NC 28403

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### **EXECUTIVE SUMMARY**

The U.S. Army Corps of Engineers (USACE), Wilmington District conducted a drinking well sampling event in the former Camp Butner, North Carolina (NC) in August 2004. This report summarizes the results of the sampling event. The objective of the sampling event was to determine if there are any impacts on groundwater quality associated with Department of Defense (DOD) activities at the former Camp Butner. The sampling event consisted of the collection and analysis of groundwater samples collected from residential wells. The former Camp Butner area is shown in Figure 1.

Twenty-three drinking wells were sampled during this event. The rationale for the sample location was to bias the wells within areas used as ranges at the former Camp Butner or near areas with historical ordnance and explosive waste (OEW) discoveries. The rationale for each sample location is shown in Table 1. An off-site location was selected for comparison purposes because of its position outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity.

Groundwater samples were collected from each location identified in Table 2 and Figure 2. The procedure used for the sampling event was consistent with the Environmental Protection Agency (EPA) Region 4 standard operating procedure (SOP) for residential well sampling and in accordance with the USACE Wilmington District Sampling and Analysis Plan (USACE 2004). The sampling procedure included determination of the well location (global positioning satellite coordinates), selection of the sample location (spigot at the well or before treatment system), purging of the well, sample collection, laboratory analysis, and data review using the USACE Automated Data Review software.

Samples from each location were analyzed for a comprehensive list of substances including those typically analyzed for under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The analytical list is identified in Table 3. Screening levels are tools used to evaluate the analytical results. The screening levels serve as an initial comparison to help determine what subsequent action (if any) is necessary. The project screening levels used for this sampling event are included in Table 4.

The complete analytical results are included in Table 5 and only the detected results are shown in Table 6. A total of 188 substances were analyzed at each location not including metals twice (total and dissolved). The results indicate a large number of substances were not detected. The results indicate only 9 substances were detected above the project screening levels. Substances detected above the project screening levels are shown in Figures 3 through 6. The 9 substances detected above the project screening levels include: chloroform; bis(2-ethylhexyl)phthalate; alpha-chlordane; gamma-chlordane; heptachlor epoxide; perchlorate; iron; lead; and manganese. Evaluation of these substances indicates only perchlorate and lead may be present due to DOD activities at Camp Butner.

Perchlorate was detected at 12 of the 23 locations including the off-site location. Perchlorate was detected above the project screening level at two locations, which were relatively shallow wells. All of the perchlorate detections are below or within the current EPA drinking water guidance range for human health protection. Perchlorate is both a naturally occurring and manmade substance. Potential sources at the Camp Butner area may include munitions, flares, fertilizer application, and defoliant application. One homeowner participating in the investigation has confirmed the use of Bulldog Soda fertilizer at his residence. Bulldog Soda has been determined to contain naturally occurring perchlorate.

Lead was detected at 9 locations and detected above the project screening level at one location in the unfiltered sample and at one location in the filtered sample. Lead typically adsorbs to sediment and these detections may be due to sediment in the sample. Lead is naturally occurring, but rare. Other potential sources of lead at Camp Butner may include munitions, water supply piping, gasoline, vehicle exhaust, and paint containing lead.

The results do not identify any clear pattern or trend and the data is inconclusive whether DOD activities at Camp Butner have impacted the groundwater quality. However, the perchlorate and lead detections warrant further investigation.

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# LIST OF ACRONYMS, ABBREVIATIONS AND SYMBOLS

μg/L micrograms per LiterADR Automated Data Reviewbgs Below Ground Surface

BVWST B&V Waste Science and Technology Corporation

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

Co Company

DOD Department of Defense

EDMS Environmental Data Management System EE/CA Engineering Evaluation/Cost Analysis

EM Engineer Manual

EPA Environmental Protection Agency

ft Foot/Feet

gpm Gallon(s) Per Minute

GPS Global Positioning Satellite

Inc Incorporated

L Liter

MCL Maximum Contaminant Level

mL milliliter
MS Matrix Spike

MSD Matrix Spike Duplicate
MTBE Methyl Tert Butyl Ether
NAD North American Datum

NAS National Academy of Sciences

NC North Carolina

NCAC North Carolina Administrative Code

NCDENR North Carolina Department of the Environment and Natural Resources

OEW Ordnance and Explosive Waste

PCB Polychlorinated Biphenyl

PRG Preliminary Remediation Goal

QA Quality Assurance
QC Quality Control
SI Site Investigation

SOP Standard Operating Procedure SVOC Semi-volatile Organic Compound

USACE United States Army Corps of Engineers

# LIST OF ACRONYMS, ABBREVIATIONS AND SYMBOLS (continued)

USGS United States Geology Service

UXO Unexploded Ordnance

VOC Volatile Organic Compound

### 1. 0 INTRODUCTION

# 1.1 Purpose and Objective

This report has been prepared by the United States Army Corps of Engineers, Wilmington District (USACE) to summarize the fieldwork conducted from August 9 through August 12, 2004 in the area of the former Camp Butner, North Carolina (NC). The fieldwork was conducted by USACE, Wilmington District personnel. The objective of the sampling effort consisted of the collection and analysis of groundwater samples collected from drinking wells to determine if there are any impacts on groundwater quality from use of Camp Butner.

# 1.2 Site History

Camp Butner, a former U.S. Army installation, was located in the north central part of North Carolina in the counties of Granville, Durham, and Person (see Figure 1). Camp Butner was officially activated in August 1942 and occupied approximately 40,400 acres. The camp was established as a training and maneuvering area for World War II combat troops. In addition to the troop cantonment area, the reservation included at least 15 ammunition training ranges, hand grenade ranges, a gas chamber, flame-thrower training range, a small arms training range, and ammunition shipping, receiving, and storage areas. The camp remained active until 1946 when it was declared excess (USACE 1993). Existing land use of the former Camp Butner includes approximately 16,550 acres owned by the State of North Carolina and approximately 4,750 acres occupied by the Camp Butner National Guard Training Center. The remaining land consists of the Town of Butner, residential use, agricultural use, and the Federal Correctional Complex.

# 1.3 Summary of Existing Site Data

USACE, Savannah District conducted a Site Investigation (SI) of a landfill located under Lightning Lake in November 1991. Soil and groundwater samples were collected from four borings completed as groundwater monitoring wells around the perimeter of Lightning Lake. Surface water and sediment samples were collected from Lightning Lake, Lake Butner, and an unnamed creek upstream of Lightning Lake. The samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (PCBs), explosives, metals, total organic halogens, and total recoverable petroleum hydrocarbons. An SI report was prepared in May 1992 and concluded based on the lab data and current land use, human health or the environment were not imminently threatened and recommended no further action (BVWST/USACE 1992) which the North Carolina Department of Environment and Natural Resources (NCDENR) concurred.

### 2.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

This section discusses the physical characteristics of the Camp Butner area including geologic and hydrogeologic conditions.

# 2.1 Physiography

The former Camp Butner area is located in the Piedmont province, which includes rolling topography with rounded hills and long low ridges. The terrain is hilly with elevation in the area ranging from 280 to 500 feet above mean sea level (USACE 1993).

### 2.2 Surface Water

The study area contains a number of perennial streams with numerous intermittent tributaries. These streams generally drain from the hills to the southwest. The majority of this area drains into the Knap of Reeds Creek, which is part of the Neuse River watershed. A small portion of the western section of this facility drains to the west into the Flat River. The Flat River also drains into Neuse River.

# 2.3 Geology and Soils

The Camp Butner area is located within Durham sub-basin of the Triassic basin. The basin is characterized by east dipping Triassic sedimentary rocks of the Newark Group. The eastern edge of the basin is defined by the Jonesboro fault. The Triassic rocks are comprised of arokosic sandstones, shales, and conglomerates that are intruded by younger diabase dikes and sills. The soils in the former Camp Butner area are in the White-Store Creedmoor soil association, which consists of gently sloping to moderately steep well-drained soils (sandy loam) with a subsoil of firm clay (USACE 1992).

The United States Geology Service (USGS) indicates the geology of the area consists mainly of Cambrian metavolcanic rocks and Paleozic sedimentary and metasedimentary rocks with some Lower Paleozoic and Precambrian granite gneiss and granite and Lower Mesozoic sedimentary and igneous rocks. According to the USGS, the primary aquifer in the Camp Butner area is a crystalline rock and undifferentiated sedimentary rock aquifer, which includes granite, mafic and felsic volcanic rocks, gneiss, schist, slate, phyllite, quartzite, minor conglomerate, sandstone, and shale (USGS 1997).

# 2.4 Hydrogeology

Information provided by residents in the former Camp Butner area participating in this sampling event is provided in Appendix A. Two well drilling companies that have installed wells in the former Camp Butner area were contacted to gather additional information regarding typical well and groundwater characteristics. These well drilling companies are Acme Well Company (Co), Incorporated (Inc) in Durham, North Carolina and Craig Husketh Water Well Drilling in Creedmoor, North Carolina. Both of these sources indicate groundwater used for drinking water at the site is typically a bedrock aquifer. Wells are typically completed as open holes in the bedrock below the surface casing. These sources also indicate there is a surficial aquifer.

Mr. David Hutson of Acme Well Co, Inc indicated the geology was complex in the former Camp Butner area and wells could range from 100 to 600 feet (ft) in depth with an average depth of approximately 250 ft. Mr. Hutson stated the casing depth is typically 50 ft deep. The flow rate could range from 4 to 15 gallons per minute (gpm), however, the flow was typically toward the lower end around 4 gpm. Mr. Hutson also indicated the depth to groundwater could range from a shallow depth to a couple of hundred ft.

Mr. Craig Husketh of Craig Husketh Water Well Drilling indicated wells in the former Camp Butner are typically 200 to 300 ft deep. Mr. Husketh stated the casing depth ranges from 20 to 80 ft deep and the flow rate ranges from 2 to 10 gpm. Mr. Husketh indicated the average depth to groundwater could range from 10 to 400 ft.

Specific information regarding the monitoring wells installed in 1991 for the SI indicate groundwater was encountered in one well in the unconsolidated aquifer above bedrock at 24 ft bgs. Groundwater was encountered in the other three wells from 7.5 feet to 13 feet in the bedrock at a depth of 21 to 45 feet bgs. After well installation, static water was measured from 15 to 45 ft bgs (BVWST/USACE 1992).

### 2.5 Drinking Water Supply

The potable water supply for the city of Butner was constructed in 1942 to support soldiers at Camp Butner. The city of Butner assumed control of the potable water supply system after Camp Butner was closed. The source of potable water is the Holt Reservoir (also known as Lake Butner), with a storage capacity of approximately 10 billion gallons (USACE 1993). The Holt Reservoir is fed by Lightning Lake. Potable water outside of the city of Butner is typically provided by individually owned wells.

### 3.0 METHODOLOGY

# 3.1 Determination of Sample Locations

Table 1 identifies the addresses and rationale for the selection of wells for this sampling event. Twenty-five (25) primary locations and 13 alternate locations were originally selected for sampling during the investigation. These locations were selected from information obtained (i.e. rights of entry) during the Unexploded Ordnance (UXO) Engineering Evaluation/Cost Analysis (EE/CA) site characterization. A site visit was conducted on April 28, 2004 to verify residences at the selected locations. Several locations were removed from further consideration because a residence was not present or due to well closure at that location. Additional locations were included based on visual confirmation of a residence and well during this site visit.

A well sample request and well information sheet was mailed to the 38 locations identified on July 8, 2004. The objective was to sample 25 wells, which is approximately 10% of the existing drinking wells in the Camp Butner area. This is an adequate sample size for an initial screening investigation. Several of the well sample requests were not returned or returned with a response indicating no desire to participate in the sampling event. Twenty-one well sample requests were returned with positive responses to participate in the sampling event. Phone communication with some residents that did not return the well sample requests obtained additional locations resulting in 23 final locations selected for the sampling event. Information regarding the wells provided by the residents has been summarized in Appendix A.

# 3.2 Field Investigation

Groundwater samples were collected from each location identified in Table 2 and Figure 2. The sampling event was conducted from August 9 to August 12, 2004. Information in this table includes sampling location, date collected, and well global positioning satellite (GPS) coordinates. The procedure used for the sampling activity is consistent with the Environmental Protection Agency (EPA) Region 4 standard operating procedure (SOP) for residential sampling (USEPA 2001) and USACE Engineer Manual (EM) 200-1-3 Requirements for Sampling and Analysis Plans (USACE 2001).

### 3.2.1 Determination of Well Location

At each location USACE personnel located the well visually. The coordinates of the well were determined using a Trimble GeoExplore XT GPS unit. For well locations where the coordinates could not be determined at the well due to limited opening above the GPS unit (i.e. tree canopy), the coordinates were collected from the nearest point were a reading was possible. The Trimble

GeoExplore XT GPS unit has an accuracy of approximately 10 feet. Well location data for each residence is included in Table 2 and is expressed as North American Datum of 1983 (NAD 83) NC State Plane Grid in feet.

# 3.2.2 Sampling Point Selection

Whenever possible, a sample point was selected which was as close as possible to the well itself. If possible, the sample point was located prior to (upstream of) a treatment system or storage tank. At a couple of the residences, the sample point was located after a storage tank. In these instances, the system was purged additional time to allow for a complete exchange of water into the tank and at the sample location. An outdoor spigot was used as the sample point for all residences.

One location was selected as an offsite location for comparison purposes because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. To date, the direction of groundwater flow in the vicinity of Camp Butner has not been confirmed and thus the chosen offsite location may not be a true background location.

# 3.2.3 Purging

All locations were purged for a minimum of 15 minutes unless otherwise noted in the well purge and sampling record forms included in Appendix B. The wells were purged at a high flow rate, approximately 3-5 gallons per minute (gpm). Purge water was allowed to discharge, approximately 20 to 30 feet away from the sampling point, to the ground surface. Water quality data was collected after purging a minimum of 15 minutes using a YSI 9620 water quality meter to ensure a consistent water stream and groundwater representative of the aquifer.

The YSI 9620 water quality meter was calibrated daily following the manufacturer's instructions. Calibration was successful for pH, conductivity, dissolved oxygen, and oxidation-reduction potential. However, calibration for turbidity was difficult and did not appear to be successful. This problem was noted on the well purge and sampling record forms for the first location of each day: North Carolina National Guard (August 9th); Camp Barham (August 10th); 4835 Uzzle Road (August 11th); and 4710 Moriah Road (August 12th). Visual inspection of these locations indicated the water was clear indicating an incorrect turbidity reading from the meter.

At most locations, the well was allowed to continue purging at a high flow rate, approximately 3-5 gpm while water quality data was recorded to address the turbidity calibration problem. Therefore, the purge period for most locations was approximately 30 minutes. A minimum of

three readings were recorded for the water quality data on the well purge and sampling record forms included in Appendix A. These forms also contain a description of the sampling location, and information regarding any residential treatment/storage.

At 564 Bethany Church Road, flow from the spigot slowed and stopped periodically after the reading for the water quality data was recorded. In order to avoid running the well completely dry, recording of the water quality data was stopped after one reading. The total purge time for this location was approximately 23 minutes.

# 3.2.4 Sample Collection

After purging was completed and stabilization parameters were documented, the required samples were collected. Samples were collected from each location for laboratory analysis in the following order:

- 1. Three 40-milliliter (mL) glass vials preserved with hydrochloric acid for VOCs
- 2. Two 1 liter (L) amber glass nonpreserved containers for SVOCs
- 3. Two 1 L amber glass nonpreserved containers for pesticides/PCBs
- 4. Two 1 L amber glass nonpreserved containers for herbicides
- 5. Three 1 L amber glass nonpreserved containers for explosive compounds and nitroglycerin
- 6. One 250 mL plastic nonpreserved container for perchlorate
- 7. One 250 mL plastic container preserved with sodium hydroxide and asorbic acid for cyanide
- 8. One 250 mL plastic container preserved with nitric acid for total metals
- 9. One 250 mL plastic container preserved with nitric acid for dissolved metals

With the exception of the samples for dissolved metals at all locations, all of the samples were collected directly into the sample container. The water samples for dissolved metals were first collected into a clean unpreserved 250 mL or larger plastic container first. A peristaltic pump equipped with an inline 45-micrometer filter and tubing dedicated to that location was used to pump the sample out of the non-preserved pre-cleaned bottle and into the appropriate pre-preserved sample bottle.

At 4878 Uzzle Road, the spigot used for collecting the samples was too low to allow for collection of water directly into the amber glass containers. A clean unpreserved polyethylene container was used to collect the water sample and subsequently fill the amber glass containers. No organic compounds were detected in the primary or duplicate samples above the laboratory detection limit, despite the use of polyethylene bottle coming into contact with samples being

analyzed for SVOCs, pesticides, PCBs, explosives and nitroglycerine. Sample collection at this location for VOCs, perchlorate, cyanide, total metals, and dissolved metals was collected directly into the sample container.

Primary samples were collected from each of the 23 locations for laboratory analysis during the sampling event. In addition, Quality Assurance/Quality Control (QA/QC) samples, consisting of field duplicate and matrix spike/matrix spike duplicate (MS/MSD) were collected. Temperature blanks were included in each sample container and trip blanks were included in each sample container with VOCs for laboratory analysis. A short description of these QA/QC samples is provided below:

- A field duplicate is an environmental sample used to assess field precision. The collection of duplicate groundwater samples is obtained by alternately filling sample containers with the primary sample from the sampling device for each parameter.
- A matrix spike (MS) is an environmental sample to which known concentrations of analytes have been added. A matrix spike duplicate (MSD) is an environmental sample, which is spiked with known concentrations of substances. The primary purpose of the MS and MSD samples is to assess the effect of the matrix on the analytical process. A secondary purpose is to assess the precision of the analytical process.
- Trip blanks are samples of organic-free (deionized) water that are prepared in the laboratory and shipped onsite with the other sample containers. They are then returned to the laboratory unopened in each shipping container that contains aqueous VOC samples and analyzed. Trip blanks are used to assess if any volatile contamination has been introduced in the sampling or sample handling or sample storage process.
- Temperature blanks are containers (e.g., 40 mL) of water packaged along with field samples in the shipping cooler that represent the temperature of the incoming cooler upon receipt at the laboratory. Use of these samples within a shipping container enables the receiving laboratory to assess the temperature of the shipment without disturbing any project field samples.

Field duplicate samples were collected at a rate of 10% or three samples. The locations of the duplicate samples were 653 Lakeview Drive, 4835 Uzzle Road, and 2202 Tilley Farm Road. MS/MSD samples were collected at a rate of 5% or one sample equal to two sample volumes). Trip blanks were shipped to the laboratory every day in the shipping container with the VOC samples. A trip blank was inadvertently not included in the shipping container with VOC samples on August 10<sup>th</sup>. The only VOC detected in samples collected on August 10<sup>th</sup> was Chloroform at an estimated concentration of 0.23 ug/L at Camp Eason. Rinsate blanks were not collected since dedicated sampling equipment was used for each location.

# 3.3 Laboratory Analysis

All groundwater samples were placed in a cooler with ice immediately following collection. At the end of each sampling day the ice was repackaged in order to maintain the temperature during shipping. The samples collected during that day were shipped via FedEx to Accutest Laboratories in Dayton, New Jersey 08810. Samples for perchlorate analysis were sent from the Accutest Laboratory to General Engineering Laboratories at 2040 Savage Road, Charleston, South Carolina 29417. Chain of Custody forms can be found in Appendix B. The samples were analyzed for the groups of parameters and analytical methods shown in Table 3.

For the VOC analysis a purge volume of 25 mL was specified in order to obtain the lowest possible detection levels. The specified data reporting package was a fully data validatable USEPA level 4-type, suitable for third party data validation, which includes all raw data. All analytical results will be reviewed using the USACE Automated Data Review and Environmental Data Management System (ADR/EDMS) Software, which complies with the USEPA National Functional Guidelines for organics and inorganic analysis. The data review was conducted by the USACE contractor ENSR. A summary of the data review is included in section 5.

# 3.4 Project Screening Levels

The project screening levels are tools used to evaluate the analytical results and serve as an initial comparison to help determine what subsequent actions are necessary. The project screening levels were identified by the USACE, Wilmington District in the Sampling and Analysis Plan (USACE 2004) and concurred by NCDENR.

Identification of the screening levels was identical for each substance to be analyzed. The most stringent of the North Carolina groundwater quality standards in 15A North Carolina Administrative Code (NCAC) 02L.0202 or the Federal Maximum Contaminant Levels (MCLs) in 40 Code of Federal Regulations (CFR) 141.61 and 141.62 were identified as the project screening level. If there was not a NC groundwater quality standard or Federal MCL for a substance, the USEPA Region IX tap water Preliminary Remediation Goal was identified as the project screening level. The project screening levels are included as Table 4.

### 4.0 RESULTS

This section discusses the analytical results by groups of analytical substances. Table 5 contains all of the laboratory analytical results for each location. Table 6 is provided to clarify the results and identifies only the detected substances for each location. Figures 3 through 6 illustrate the substances that were detected above project screening levels for each location. Appendix C contains an electronic version of the laboratories full data package.

# 4.1 Volatile Organic Compounds

Two VOCs were detected above the laboratory detection limit. Methyl tert butyl ether (MTBE) was detected at 71.1 micrograms per Liter ( $\mu$ g/L) (4710 Moriah Road), which is below the project screening level of 200  $\mu$ g/L. MTBE is almost exclusively used as a fuel additive in motor gasoline. MTBE came into use in 1979 (http://www.epa.gov/safewater/mtbe.html), which is after the close of Camp Butner in January 1947. This detection of MTBE may be related to an underground storage tank in the area or spillage of gasoline associated with filling vehicles.

Chloroform was detected at an estimated concentration of 0.23  $\mu$ g/L (Camp Eason), which is above the project screening level of 0.19  $\mu$ g/L. Small amounts of chloroform may be formed as an unwanted product during the process of adding chlorine to water for disinfection purposes.

# 4.2 Semi-Volatile Organic Compounds

One SVOC was detected above the laboratory detection limit at two locations. Bis(2-ethylhexyl)phthalate was detected at 9.3  $\mu$ g/L (Camp Eason) and 7.9  $\mu$ g/L (5057 Clayton Road), which are above the project screening level of 3  $\mu$ g/L. Bis(2-ethylhexyl)phthalate is a common lab contaminant introduced during the analytical process and may be the source of its presence.

#### 4.3 Pesticides and PCBs

Three pesticides were detected above the laboratory detection limit at one location (2022 Tilley Farm Road). Alpha-Chlordane was detected at  $0.088 \,\mu g/L$  and gamma-Chlordane was detected at  $0.13 \,\mu g/L$ , which are above the project screening level of  $0.027 \,\mu g/L$  for the total of all chlordane compounds. Heptachlor epoxide was detected at 0.48, which is above the project screening level of  $0.004 \,\mu g/L$ .

Chlordane and heptachlor epoxide were first introduced in the United States in 1947 and 1950 respectively. This time frame is after the close of Camp Butner in January 1947. These

detections may be associated with agricultural used in the area. (<a href="http://envirocancer.cornell.edu/FactSheet/Pesticide/fs11.chlordane.pdf">http://envirocancer.cornell.edu/FactSheet/Pesticide/fs11.chlordane.pdf</a>) (<a href="http://envirocancer.cornell.edu/FactSheet/Pesticide/fs12.heptachlor.pdf">http://envirocancer.cornell.edu/FactSheet/Pesticide/fs12.heptachlor.pdf</a>)

PCBs were not detected above the laboratory detection limit at any location.

#### 4.4 Herbicides

Herbicides were not detected above the laboratory detection limit at any location.

# 4.5 Explosive Compounds and Nitroglycerin

Explosive compounds and nitroglycerin were not detected above the laboratory detection limit at any location.

#### 4.6 Perchlorate

Perchlorate was detected at 12 of 23 locations ranging from 0.079 to 10.3  $\mu$ g/L. Perchlorate was detected above the project screening level of 3.6  $\mu$ g/L at two locations. The detections above the project screening level were 3.94  $\mu$ g/L (652 Lakeview Drive) and 10.3  $\mu$ g/L (564 Bethany Church Road). These two detections above the project screening level were both detected in relatively shallow wells according to information provided by residents (Appendix A). The depth of these wells is 120 ft (564 Bethany Church Road) and 145 ft (652 Lakeview Drive).

Currently there is not a Federal or NC standard for perchlorate. The project screening level is the EPA Region IX tap water preliminary remediation goal (PRG), which is intended as an initial screening-level evaluation of environmental measurements. The PRGs are not legally enforceable standards and are used for screening purposes only. In January 2003, the EPA reaffirmed its 1999 interim guidance, which identified a range of 4-18  $\mu$ g/L as the drinking water range for perchlorate for protection of human health. The guidance is considered interim pending the outcome of the National Academy of Sciences (NAS) review of EPA's risk assessment. The perchlorate detections of 3.94 and 10.3  $\mu$ g/L are below or within this interim guidance range.

Perchlorate is both a naturally occurring and man-made substance. Perchlorate is found naturally occurring in some fertilizers made from Chilean nitrates. These fertilizers are primarily used for certain crops including fruits, vegetables, tobacco, and cotton. A particular fertilizer that is imported from Chile in the United States is Bulldog Soda. Bulldog Soda has been confirmed to contain naturally occurring perchlorate (Urbansky 2000). One homeowner who had a perchlorate detection has confirmed the use of Bulldog Soda fertilizer at their residence.

Percharate is also used as a manmade substance in numerous applications throughout the world. Some of these applications include:

- Oxidizing agent in munitions, fireworks, and flares
- Impurity in sodium chlorate used as a defoliant the agricultural and railroad industry for weed control
- Used to fix dyes in the textile industry
- Bleaching agent in the paper and pulp industry
- Used as a component of air bag inflators
- Manufacture of matches

A number of potential sources exist in the Camp Butner area and include munitions and the agricultural, railroad, and textile industries.

# 4.7 Cyanide

Cyanide was not detected above the laboratory detection limit at any location.

### 4.8 Metals

As stated earlier, samples for metals analysis were collected twice. Many metals are likely to adsorb to sediment in groundwater samples and potentially influence the analytical results. The first sample is collected directly from the sample point and is referred to as the total metals sample. The second sample for metals was collected in a clean unpreserved container and transferred through a filter to a clean preserved container, producing a dissolved metals sample. This discussion refers to the total metals results unless specifically mentioned otherwise.

Twenty metals were detected above the laboratory detection limits at various locations including aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium, thallium, vanadium, and zinc. Only iron, lead, and manganese were detected above the project screening level.

Iron was detected at 13 of 23 locations and was detected above the project screening level of 300  $\mu$ g/L at 10 locations. At 6 of the 10 locations where iron was detected above the project screening level, the dissolved metals result was not detected above the laboratory detection limit of 100  $\mu$ g/L. At all locations were iron was detected the dissolved metals result was much lower than the total metals result. These results indicate the difference between the total metals and dissolved metals results are most likely due to sediment entrained in the samples.

Manganese was detected at 18 of 23 locations and was detected above the project screening level of 50  $\mu$ g/L at 14 locations. The project screening levels for iron and manganese are the NC groundwater quality standards. These standards are identical to the Federal MCL, which are secondary MCLs and are primarily for aesthetics such as taste and odor in public water systems.

Corrosion or iron-fixing bacteria on iron and steel casings and well fittings can contribute to high iron concentrations. According to the USGS the primary aquifer in the former Camp Butner area is a crystalline rock aquifer. Crystalline rock aquifers are composed of crystalline metamorphic and igneous rocks of many types. The crystalline rocks can contribute iron and manganese in the groundwater when the rocks are weathered. The median iron concentration in crystalline aquifers is around 1,000  $\mu$ g/L with some concentrations as high as 25,000  $\mu$ g/L (USGS 1997). The presence of iron and manganese is most likely naturally occurring.

Lead was detected at 8 of 23 locations and was detected above the project screening level of 15  $\mu$ g/L at one location at 39.9  $\mu$ g/L in the total metals or unfiltered sample (4535 Uzzle Road). Lead was not detected above the laboratory detection limit of 3.0  $\mu$ g/L for dissolved or filtered metals. This appears to indicate sediment was entrained in the sample causing the higher total metals result. Lead was detected at the reference location at 4.4  $\mu$ g/L.

Lead was also detected above the project screening level at  $35.7~\mu g/L$  at one location in the dissolved metals or filtered sample (Camp Barham). Lead was detected at  $8.2~\mu g/L$  in the total or unfiltered metals result for lead for this location, which does not exceed the project screening level of  $15~\mu g/L$ . The dissolved lead concentration being greater then the total lead concentration may be an anomaly, and thus the data results for lead at this location may not be indicative of the total or dissolved groundwater metal concentration. An explanation for this may be that the total and dissolved sample bottles were inadvertently switched. Lead was detected at the off-site location at  $4.4~\mu g/L$ . Lead is naturally occurring, but rare. Other potential sources of lead at Camp Butner may include munitions, water supply piping, gasoline, vehicle exhaust, and paint containing lead.

# 4.9 **Duplicate Samples**

Field duplicate samples were collected to assess the precision of the field sampling activities. These samples were collected at a rate of 10% or at three locations. The locations of the duplicate samples were 653 Lakeview Drive, 4835 Uzzle Road, and 2202 Tilley Farm Road. The field duplicate results agree with the primary sample results, as both sample results for each location were consistent indicating quality control procedures were followed during the field activities of the sampling event.

# 4.10 Summary

The sampling event was an initial screening investigation conducted with the primary objective of identifying impacts to groundwater quality from DOD activities associated with Camp Butner. Twenty-three drinking wells were sampled representing approximately 10% of the drinking wells in the former Camp Butner area.

A total of 188 substances were analyzed at each location not including metals twice (total and dissolved). The results indicate a large number of substances were not detected. The results indicate only 9 substances were detected above the project screening levels which include: chloroform; bis(2-ethylhexyl)phthalate; alpha-chlordane; gamma-chlordane; heptachlor epoxide; perchlorate; iron; lead; and manganese. Evaluation of these substances indicates only perchlorate and lead may be present due to DOD activities at Camp Butner.

Perchlorate was detected in a random manner in the sample locations throughout the former Camp Butner area. Perchlorate was detected above the project screening level at two locations, which were from relatively shallow wells according to information provided by homeowners in Appendix A. All of the detections were below or within the current EPA human health guidance range for drinking water. Perchlorate is both a naturally occurring and man-made substance. Potential sources at the Camp Butner area may include munitions, flares, fertilizer application, and defoliant application. One homeowner participating in the investigation has confirmed the use of Bulldog Soda fertilizer at his residence. Bulldog Soda has been determined to contain naturally occurring perchlorate.

Lead was also detected in a random manner in the sample locations throughout the former Camp Butner area. Two detections were above the drinking water standard. Lead is likely to adsorb to sediment and these detections may be due to sediment in the sample. Lead was detected at the off-site location at 4.4 µg/L. Lead is naturally occurring, but rare. Other potential sources of lead at Camp Butner may include munitions, water supply piping, gasoline, vehicle exhaust, and paint containing lead.

# 5.0 DATA REVIEW

The analytical data was reviewed using the USACE Automated Data Review and Environmental Data Management System (version 5.0). The analytical data was reviewed in accordance with EPA National Functional Guidelines and EPA Region IV data review guidelines. The Data Review Report can be found in Appendix D.

The review process as presented in Appendix D concludes that the analytical data from this well sampling event for the Former Camp Butner is of acceptable quality. The overall quality of the data was determined to be acceptable with minimal qualification. There were no findings in this review that would prohibit the data form being considered usable for the intended purpose of this sampling effort.

# 6.0 RECOMMENDATIONS

The data set is limited as this was a screening investigation. At many sample locations, the well depth and specific hydrogeologic information was unknown. Therefore, it is impossible to compare the results with a high degree of confidence. The results do not identify any clear pattern or trend and the data is inconclusive whether DOD activities at Camp Butner have impacted the groundwater quality. However, the perchlorate and lead detections warrant further investigation. The Corps will continue to work with the State and community to determine what work should be included in subsequent investigations.

# 7.0 REFERENCES

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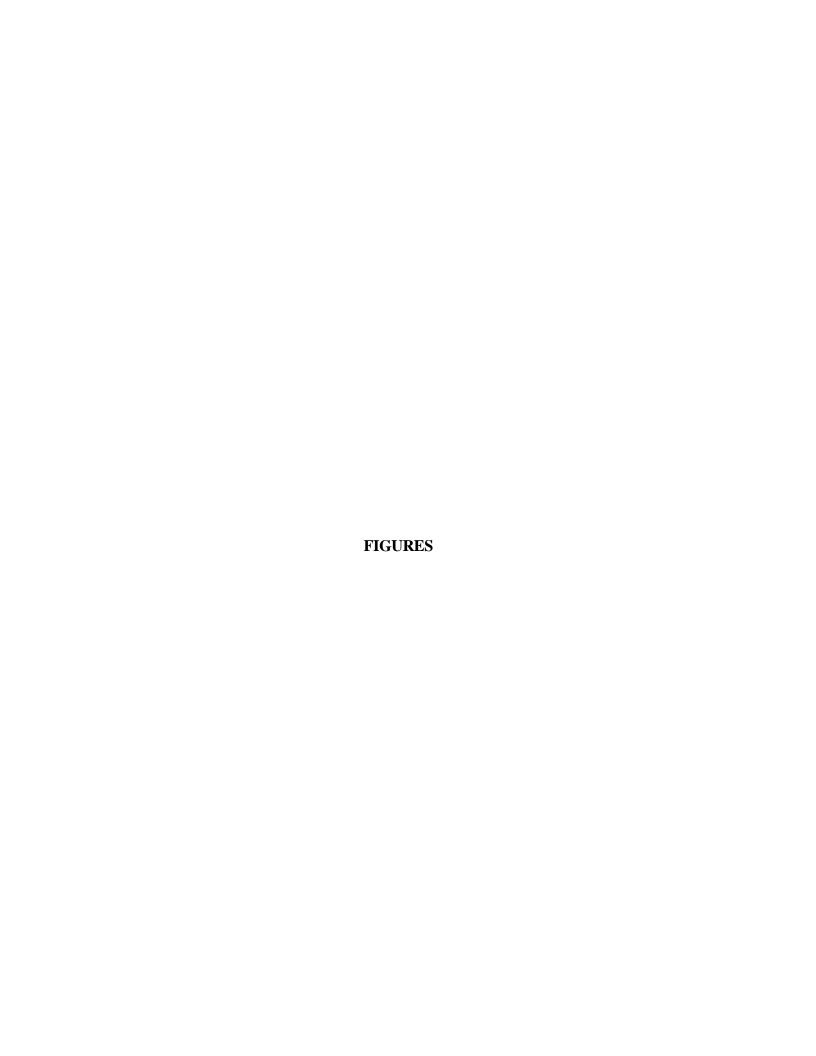
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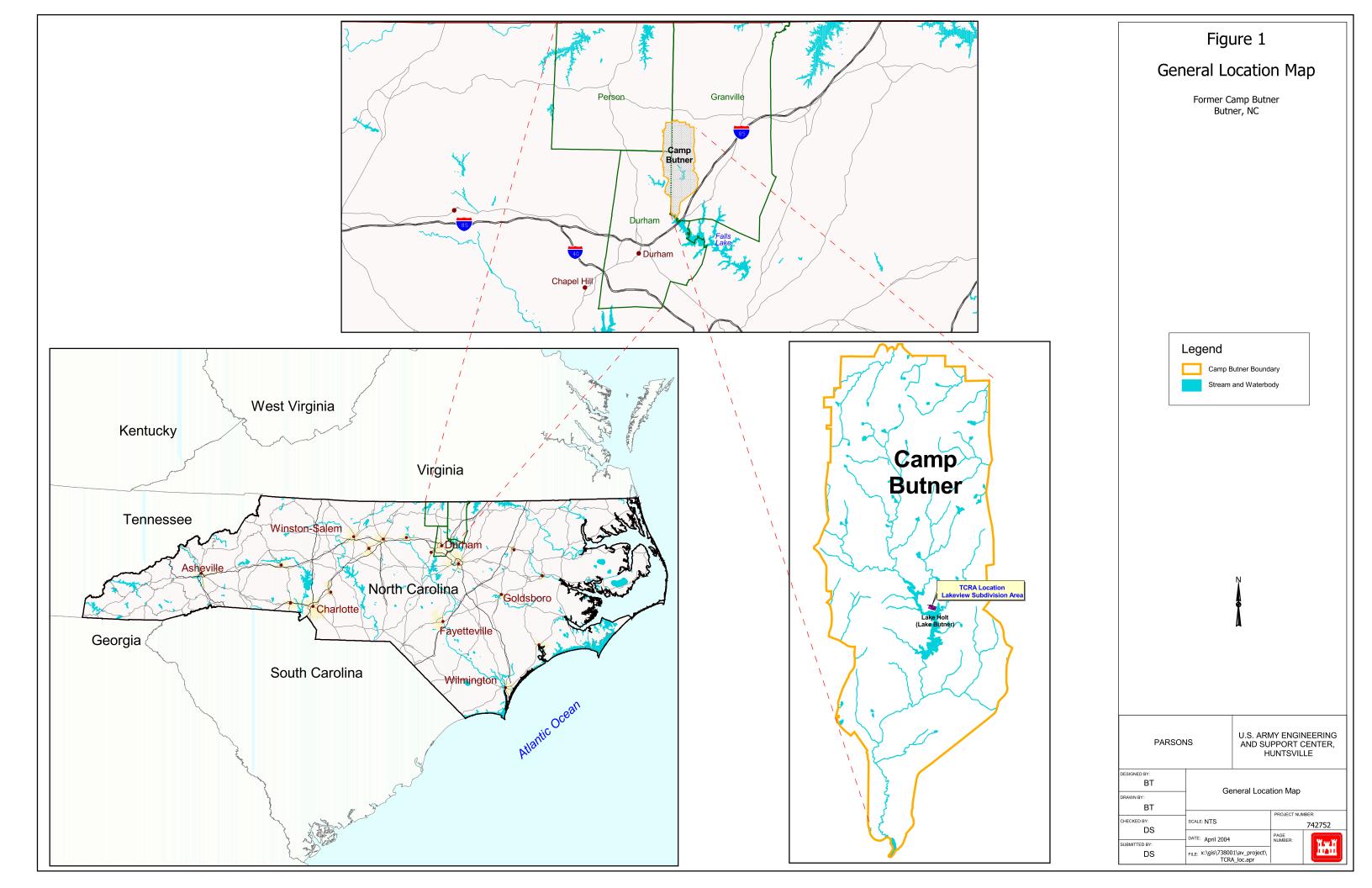
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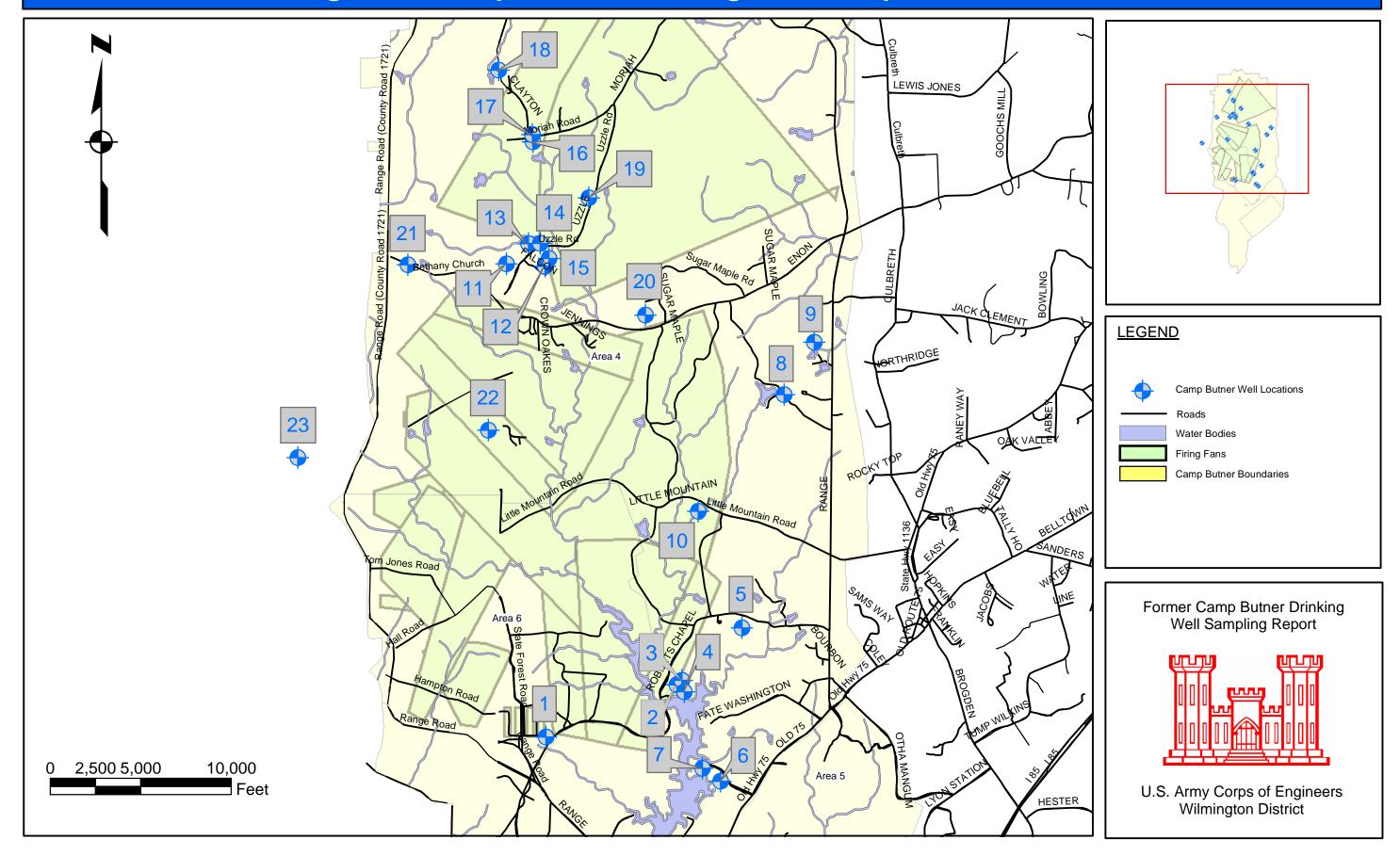
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USGS. 1997. Groundwater Atlas of the United States, Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia, Piedmont and Blue Ridge Aquifers, HA-730L.

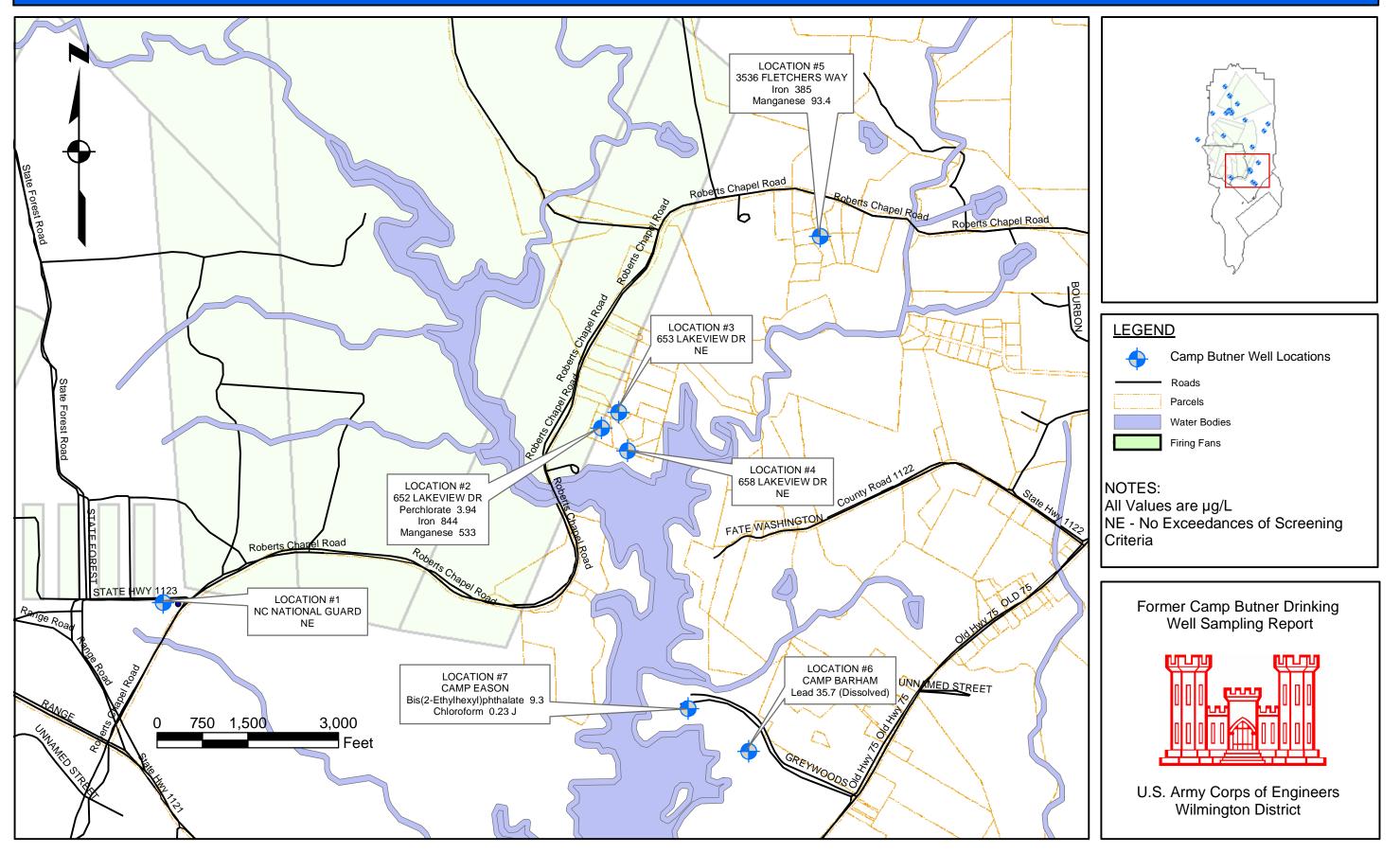




# Figure 2: Camp Butner Drinking Well Sample Locations

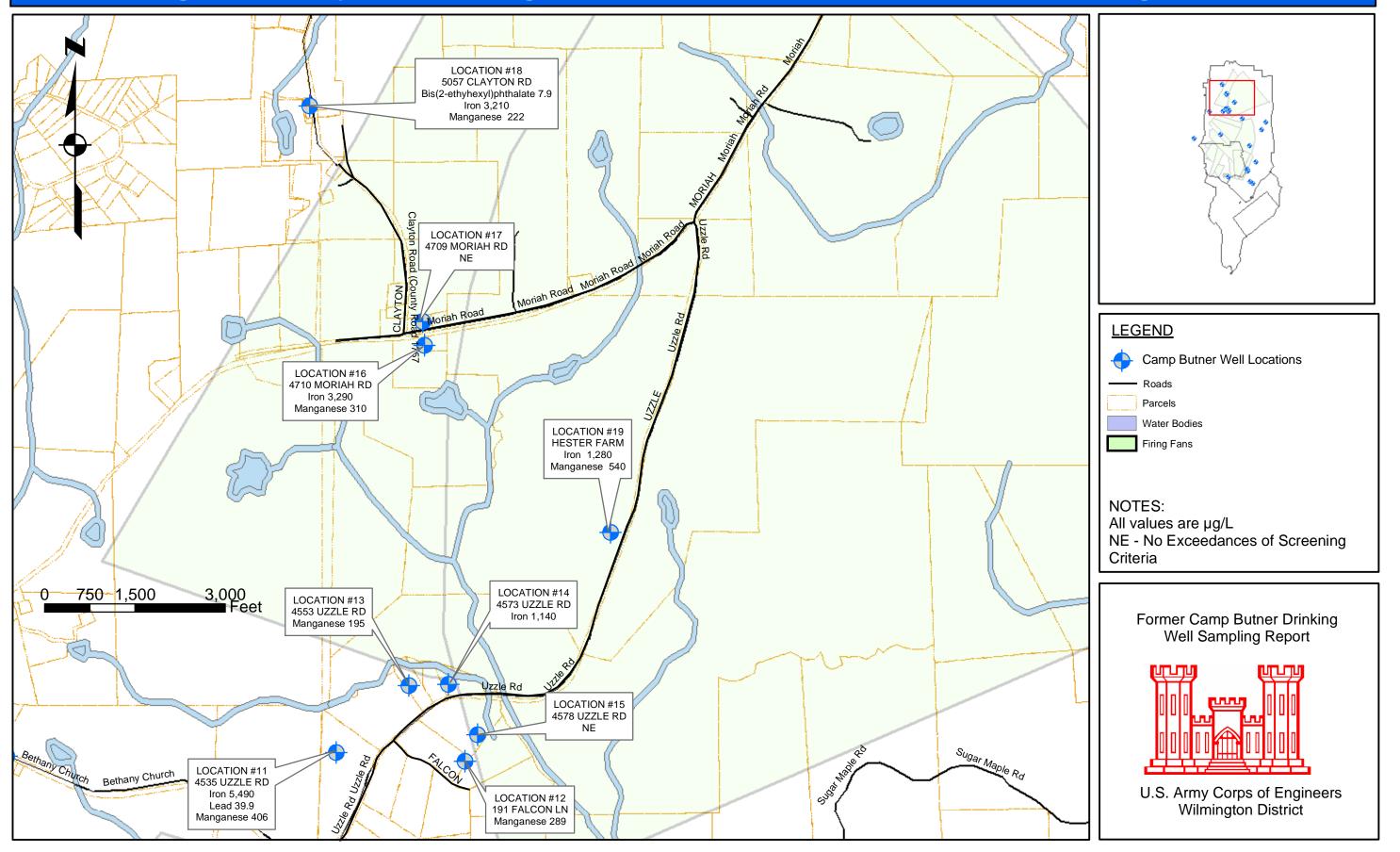


# Figure 3: Project Screening Level Exceedances for Locations 1 through 7

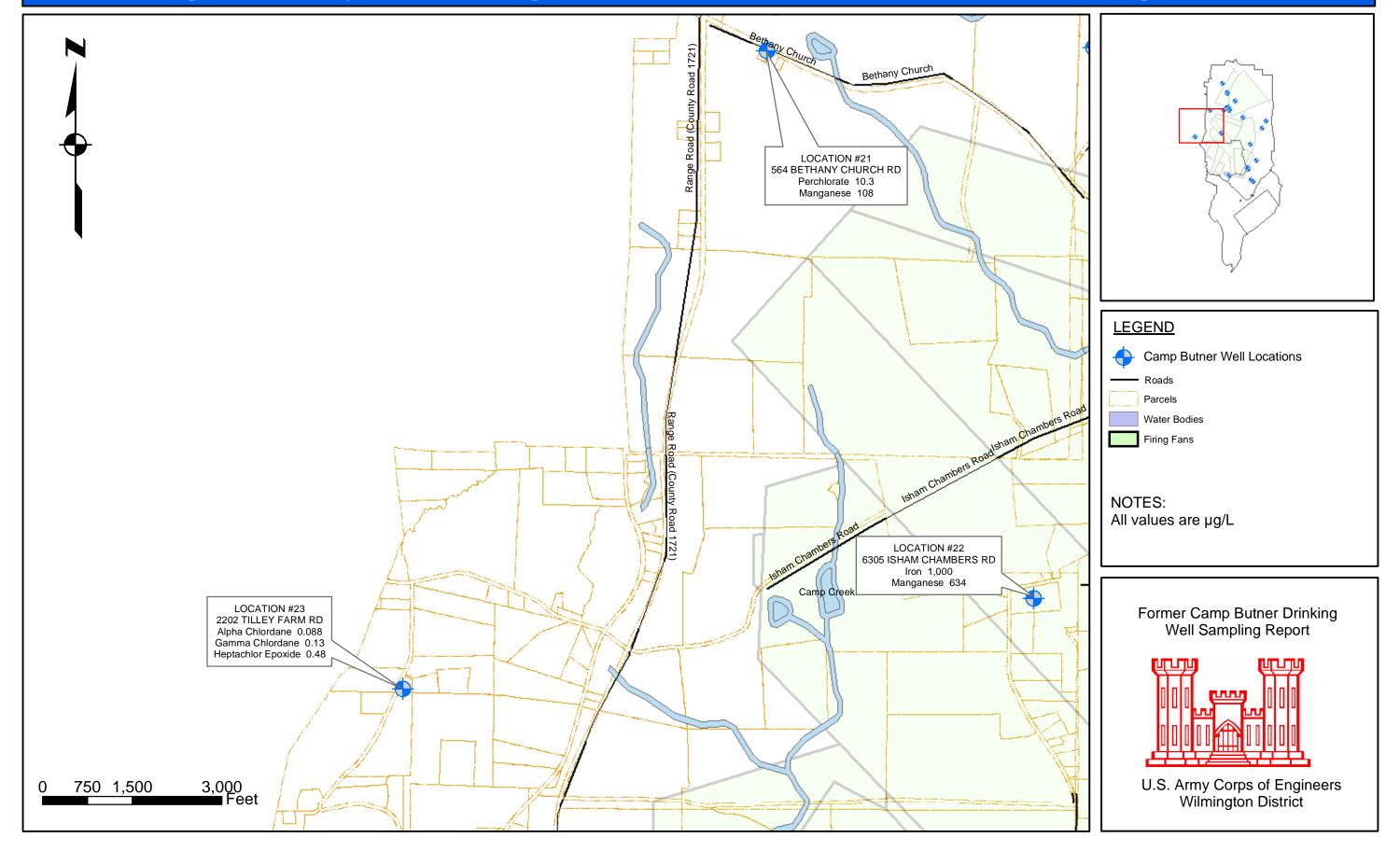


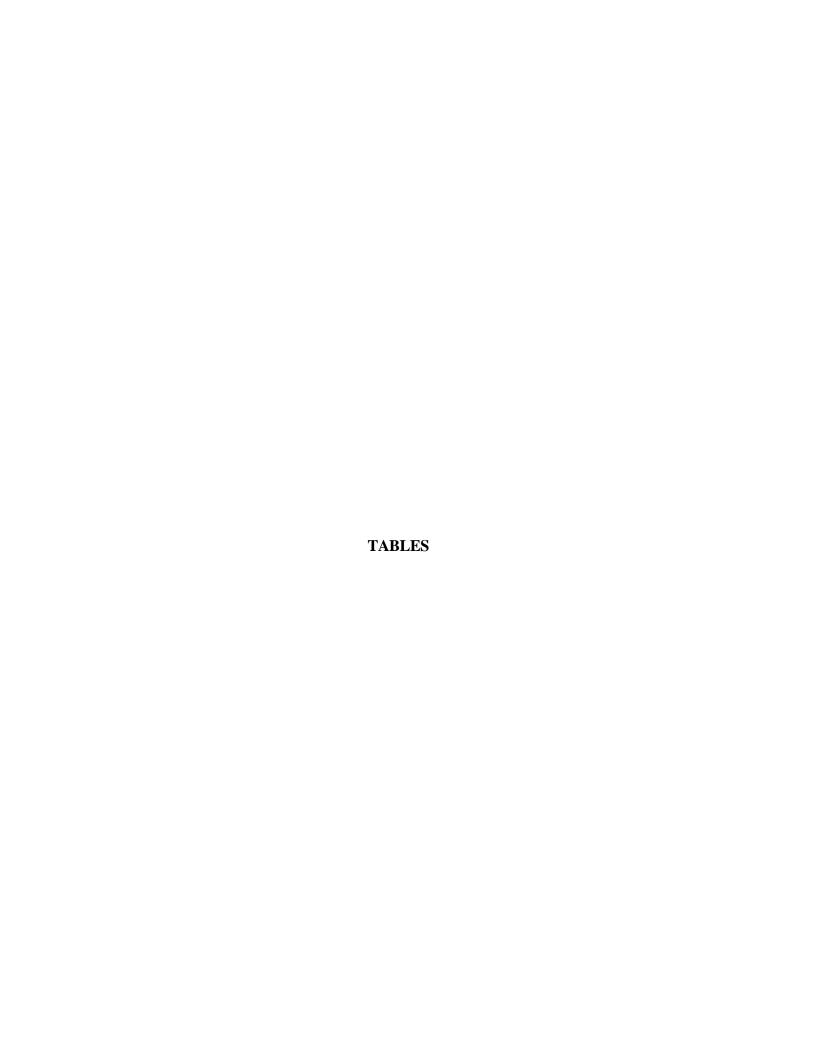
# Figure 4: Project Screening Level Exceedances for Locations 8, 9, 10, and 20 Enon Road (County Road 1139) ENON\_ LOCATION #9 4149 RANGE ROAD Manganese 372 LOCATION #20 627B ENON RD Iron 984 Manganese 351 **LEGEND** Camp Butner Well Locations Parcels Water Bodies LOCATION #8 4051 RANGE RD Firing Fans Iron 619 Manganese 366 NOTES: All values are µg/L NE - No Exceedances of Screening Criteria 3,000 Feet <del>0</del> 750 1,500 Former Camp Butner Drinking Well Sampling Report Little Mountain Road LOCATION #10 750 LITTLE MOUNTAIN RD Manganese 177 LITTLE MOUNTAIN U.S. Army Corps of Engineers Wilmington District

# Figure 5: Project Screening Level Exceedances for Locations 11 through 19



# Figure 6: Project Screening Level Exceedances for Locations 21 through 23





**Table 1: SAMPLE LOCATION AND RATIONALE** 

NO.	ADDRESS	RATIONALE
1	NC National Guard Facility	Within multiple firing fans.
	Stem, NC 27581	
2	652 Lakeview Dr.	UXO present from EECA intrusive investigation
	Stem, NC 27581	
3	653 Lakeview Dr.	UXO present during Non-TCRA and EECA investigation
	Stem, NC 27851	
4	658 Lakeview Dr.	UXO present from EE/CA investigation
	Stem, NC 27581	
5	3536 Fletcher's Way	Adjacent to firing fan and near OE scrap during EE/CA.
	Stem, NC 27581	
6	Camp Barham	Within range complex 1
	Barham-Eason Road	
	Stem, NC 27581	
7	Camp Eason	Within range complex 1
	Barham-Eason Road	
0	Stem, NC 27581	A 1' A LINO A 1 ' EE/GA (A 4D2)
8	4051 Range Road	Adjacent to UXO present during EE/CA (A4P3)
9	Stem, NC 27581	LIVO garaget design EE/CA (AAC 1420)
9	4149 Range Road Stem, NC 27581	UXO present during EE/CA (A4G 1439)
10	750 Little Mountain Road	UXO present during EE/CA (A4G 0284) intrusive investigation and
10	Stem, NC 27581	within multiple firing fans.
11	4535 Uzzle Road	Near UXO finding 10 years ago and within firing fan.
11	Rougemont, NC 27572	real OAO midnig 10 years ago and within ming fail.
12	191 Falcon Lane	UXO finding 10 years ago and within firing fan.
12	Rougemont, NC 27572	CITO Intellig To yours ago and wanti filling fail.
13	4553 Uzzle Road	Adjacent to UXO present during EE/CA and within firing fan.
	Rougemont, NC 27572	-J & & & & & & & & & & & & & & &
14	4573 Uzzle Road	Adjacent to UXO present during EE/CA (A4G 0020) and within
	Rougemont, NC 27572	multiple firing fans.
15	4578 Uzzle Road	Recent Non-EE/CA UXO Finding and within firing fan.
	Rougemont, NC 27572	
16	4710 Moriah Road	Adjacent to UXO present during EE/CA (A4G 0071) and within firing
	Rougemont, NC 27572	fans.
17	4709 Moriah Road	Adjacent to UXO present during EE/CA (A4G 0071) and within firing
	Rougemont, NC 27572	fans.
18	5057 Clayton Road	Near firing fan and OE scrap present during EE/CA
	Rougemont, NC 27572	
19	Hester Farm, Uzzle Road	Adjacent to Recent UXO findings and within multiple firing fans.
5.0	Rougemont, NC 27572	
20	627B Enon Road	OES present during EE/CA.
21	Oxford, NC 27575	OEG 11: FE/GA
21	564 Bethany Church Rd	OES present during EE/CA
- 22	Rougemont, NC 27572	Wishing and tiple fining form and an OF comment of the EF/CA
22	6305 Isham Chambers Rd	Within multiple firing fans and near OE scrap present during EE/CA
22	Rougemont, NC 27572	Offsite location to some as a boseling for comparison to other
23	2202 Tilley Farm Road	Offsite location to serve as a baseline for comparison to other
	Rougemont, NC 27572	locations

**Table 2: SAMPLE COLLECTION INFORMATION** 

NO.	ADDRESS	SAMPLE	SAMPLE	WELL GPS
		COLLECTION DATE	IDENTIFICATION	COORDINATES
1	NC National Guard Facility	August 9, 2004	RW-0804-NCNG	2060770 E
	Stem, NC 27581			885556 N
2	652 Lakeview Dr.	August 9, 2004	RW-0804-652-LakeviewDr	2068006 E
	Stem, NC 27581			888444 N
3	653 Lakeview Dr.	August 9, 2004	RW-0804-653-LakeviewDr	2068294 E
	Stem, NC 27851			888702 N
4	658 Lakeview Dr.	August 9, 2004	RW-0804-658-LakeviewDr	2068441 E
	Stem, NC 27581			888075 N
5	3536 Fletcher's Way	August 9, 2004	RW-0804-3536-Flethchers	2071621 E
	Stem, NC 27581		Way	891609 N
6	Camp Barham	August 10, 2004	RW-0804-CampBarham	2070437 E
	Barham-Eason Road			883108 N
	Stem, NC 27581	10.2004	DW 0004 G F	20.00.447.15
7	Camp Eason	August 10, 2004	RW-0804-CampEason	2069447 E
	Barham-Eason Road			883818 N
8	Stem, NC 27581	A 10, 2004	DW 0904 4051 Day 52 D4	2072059 E
8	4051 Range Road Stem, NC 27581	August 10, 2004	RW-0804-4051-RangeRd	2073958 E 904528 N
9	4149 Range Road	August 10, 2004	RW-0804-4149-RangeRd	2075624 E
)	Stem, NC 27581	August 10, 2004	KW-0804-4149-KangeKu	907432 N
10	750 Little Mountain Road	August 10, 2004	RW-0804-750-	2069191 E
10	Stem, NC 27581	August 10, 2004	LittleMountain	898063 N
11	4535 Uzzle Road	August 11, 2004	RW-0804-4535-UzzleRd	2058580 E
11	Rougemont, NC 27572	August 11, 2004	KW-0004-4333-0221CRu	911788 N
12	191 Falcon Lane	August 10, 2004	RW-0804-191-FalconLane	2060727 E
12	Rougemont, NC 27572	1148451 10, 2001	Tev ooo i ji i aleonzane	911667 N
13	4553 Uzzle Road	August 11, 2004	RW-0804-4553-UzzleRd	2059788 E
10	Rougemont, NC 27572	1109000 11, 2001	1111 3001 1000 02220110	912903 N
14	4573 Uzzle Road	August 11, 2004	RW-0804-4573-UzzleRd	2060443 E
	Rougemont, NC 27572	, , , , ,		912918 N
15	4578 Uzzle Road	August 11, 2004	RW-0804-4578-UzzleRd	2060912 E
	Rougemont, NC 27572			912082 N
16	4710 Moriah Road	August 12, 2004	RW-0804-4710-MoriahRd	2060045 E
	Rougemont, NC 27572	_		918545 N
17	4709 Moriah Road	August 12, 2004	RW-0804-4709-MoriahRd	2060016 E
	Rougemont, NC 27572			918941 N
18	5057 Clayton Road	August 12, 2004	RW-0804-5057-ClaytonRd	2058138 E
	Rougemont, NC 27572			922514 N
19	Hester Farm, Uzzle Road	August 11, 2004	RW-0804-HesterFarm	2063131 E
	Rougemont, NC 27572			915440 N
20	627B Enon Road	August 11, 2004	RW-0804-627B-EnonRd	2066264 E
	Oxford, NC 27575			908927 N
21	564 Bethany Church Rd	August 12, 2004	RW-0804-564-	2053111 E
	Rougemont, NC 27572		BethanyChurch	911731 N
22	6305 Isham Chambers Rd	August 12, 2004	RW-0804-6305-	2057578 E
	Rougemont, NC 27572		IshamChambers PNA 2002	902561 N
23	2202 Tilley Farm Road	August 12, 2004	RW-0804-2202-	2047013 E
	Rougemont, NC 27572		TilleyFarmRd	901047 N

Footnote: NAD 83 NC State Plane Grid in feet

**Table 3: ANALYTCIAL METHODS** 

PARAMETER	ANALYTICAL METHOD
Target Compound List (TCL) VOCs	SW 846 5030B/8260B
TCL SVOCs	SW 846 3520C/8270C
Pesticides/PCBs	SW 846 3520C/8081A
Herbicides	SW 846 3520C/8151A
Explosives	SW 846 8330
Nitroglycerin	SW 846 8332
Perchlorate	SW 846 8321mod
Cyanide	SW 846 9012A or 9014
Target Analyte List (TAL) Total Metals	SW 846 3020A/6010B/7470A/6020
TAL Dissolved Metals	SW 846 3020A/6010B/7470A

**Table 4: PROJECT SCREENING LEVELS** 

	NC (a)	Federal MCL (b)	Region 9 Tap Water PRG (c)	Screening Level
Volatile Organic Compounds (VOCs)	μg/L	μg/L	μg/L	μg/L
1,1,1-Trichloroethane	200	200	3,200	200
1,1,2,2-Tetrachloroethane	0.17 (I)	NA	0.055	0.17
1,1,2-Trichloro-1,2,2-trifluoroethane	210,000	NA	59,000	210,000
1,1,2-Trichloroethane	NA	5	0.2	5
1.1-Dichloroethane	700	NA	810	700
1,1-Dichloroethene	7	7	340	7
1.2.3-Trichlorobenzene	NA	NA	NA	NA
1.2.4-Trichlorobenzene	70 (I)	70	190	70
1,2-Dibromo-3-chloropropane	0.025	0.2	0.048	0.025
1,2-Dibromoethane	0.0004	0.05	0.00076	0.0004
1.2-Dichlorobenzene	620	600	370	600
1,2-Dichloroethane	0.38	5	0.12	0.38
1,2-Dichloropropane	0.56	5	0.16	0.56
1,3-Dichlorobenzene	620	NA	5.5	620
1.4-Dichlorobenzene	75	75	0.5	75
1.4-Dioxane	7	NA	6.1	7
2-Butanone	170	NA	1,900	170
2-Hexanone	280 (I)	NA	NA	280
4-Methyl-2-pentanone	NA NA	NA NA	160	160
Acetone	700	NA NA	610	700
Benzene	1	5	0.34	1
Bromochloromethane	NA	NA NA	NA	NA NA
Bromodichloromethane	0.56	80T	0.18	0.56
Bromoform	0.19	80T	8.5	0.19
Bromomethane	NA	NA	8.7	8.7
Carbon Disulfide	700	NA NA	1,000	700
Carbon tetrachloride	0.3	5	0.17	0.3
Chlorobenzene	50	100	110	50
Chloroethane	2,800	NA	4.6	2,800
Chloroform	0.19	80T	6.2	0.19
Chloromethane	2.6	NA	1.5	2.6
cis-1,2-Dichloroethene	70	70	61	70
cis-1,3-Dichloropropene	0.19 (total)	NA	0.4	0.19 (total)
Cyclohexane	NA	NA NA	35,000	35,000
Dibromochloromethane	0.41 (I)	80T	0.13	0.41
Dichlorodifluoromethane	1400	NA	390	1400
Ethylbenzene	29	700	2.9	29
Isopropylbenzene	70	NA	660	70
m,p-Xylene	530	10,000	210	530 (total)
Methyl acetate	NA	NA	6100	6100
Methyl tert-butyl ether	200	NA NA	13	200
Methylcyclohexane	NA	NA NA	15 NA	NA
Methylene chloride	5	5 5	4.3	5
o-Xylene	530	10,000	210	530
•		,		100
Styrene Tetrachloroethene	0.7	100	1,600 0.66	0.7
Toluene	1,000	1,000	720	1,000
trans-1,2-Dichloroethene	70	1,000	120	70
			0.4	
trans-1,3-Dichloropropene	0.19 (total)	NA 5		0.19 (total)
Trichloroethene	2.8	5	0.028	2.8
Trichlorofluoromethane	2100	NA	1300	2100
Vinyl chloride	0.015	2	0.02	0.015
Xylene (total)	530	10,000	210	530

**Table 4: PROJECT SCREENING LEVELS** 

Semi-volatile Organic Compounds (SVOCs)	NC (a)	Federal MCL (b)	Region 9 Tap Water PRG (c)	Screening Level
	μg/L	μg/L	μg/L	μg/L
1,1'-Biphenyl	NA	NA	300	300
1,2,4,5-Tetrachlorobenzene	NA	NA	11	11
2,2'-Oxybis(1-chloropropane)2	NA	NA	0.27	0.27
2,3,4,6-Tetrachlorophenol	210	NA	1100	210
2,4,5-Trichlorophenol	NA	NA	3,600	3,600
2,4,6-Trichlorophenol	NA	NA	3.6	3.6
2,4-Dichlorophenol	NA	NA	110	110
2,4-Dimethylphenol	140	NA	730	140
2,4-Dinitrophenol	NA	NA	73	73
2,4-Dinitrotoluene	NA	NA	73	73
2,6-Dinitrotoluene	NA	NA	36	36
2-Chloronaphthalene	NA	NA	490	490
2-Chlorophenol	0.1	NA	30	0.1
2-Methylnaphthalene	14	NA	NA	14
2-Methylphenol	NA	NA	1800	1800
2-Nitroaniline	NA	NA	1	1
2-Nitrophenol	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	0.15	0.15
3-Nitroaniline	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA
4-Chloro-3-methylphenol	NA	NA	NA	NA
4-Chloroaniline	NA	NA	150	150
4-Chlorophenyl-phenyl ether	NA	NA	NA	NA
4-Methylphenol	3.5	NA	180	3.5
4-Nitroaniline	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA
Acenaphthene	80	NA	370	80
Acenaphthylene	210	NA	NA	210
Acetophenone	NA	NA	NA	NA
Anthracene	2,100	NA	1,800	2,100
Atrazine	3	3	0.3	3
Benzaldehyde	NA	NA	3600	3600
Benzo(a)anthracene	0.0479	NA	0.092	0.0479
Benzo(a)pyrene	0.00479	0.2	0.0092	0.00479
Benzo(b)fluoranthene	0.0479	NA	0.092	0.0479
Benzo(g,h,i)perylene	210	NA	NA	210
Benzo(k)fluoranthene	0.479	NA	0.92	0.479
Bis(2-chloroethoxy) methane	NA	NA	NA	NA
Bis-(2-chloroethyl) ether	0.031 (I)	NA	0.0098	0.031
Bis(2-ethylhexyl)phthalate	3	6	4.8	3
Butylbenzylphthalate	100	NA	7,300	100
Caprolactam	3500	NA	18,000	3500
Carbazole	NA	NA	3.4	3.4
Chrysene	4.79	NA	9.2	4.79
Dibenzo(a,h)-anthracene	0.0047	NA	0.0092	0.0047
Dibenzofuran	28 (I)	NA	24	28
Diethylphthalate	5000	NA	29,000	5000
Dimethylphthalate	NA	NA	360,000	360,000
Di-n-butylphthalate	700	NA	3600	700
Di-n-octylphthalate	140	NA	1500	140
Fluoranthene	280	NA	1,500	280
Fluorene	280	NA	240	280
Hexachlorobenzene	0.02	1	0.042	0.02
Hexachlorobutadiene	0.44 (I)	NA	0.86	0.44
Hexachlorocyclo-pentadiene	NA	50	220	50
Hexachloroethane	NA	NA	4.8	4.8

**Table 4: PROJECT SCREENING LEVELS** 

CAS No.	SVOCs (cont.)	NC (a) μg/L	Federal MCL (b) µg/L	Region 9 Tap Water PRG (c) µg/L	Screening Level µg/L
193-39-5	Indeno(1,2,3-cd)-pyrene	0.0479	NA	0.092	0.0479
78-59-1	Isophorone	36.8	NA	71	36.8
91-20-3	Naphthalene	21	NA	6.2	21
98-95-3	Nitrobenzene	NA	NA	3.4	3.4
621-64-7	N-Nitroso-di-npropylamine	NA	NA	0.0096	0.0096
86-30-6	N-Nitrosodiphenylamine	NA	NA	14	14
87-86-5	Pentachlorophenol	0.3	1	0.56	0.3
85-01-8	Phenanthrene	210	NA	NA	210
108-95-2	Phenol	300	NA	22,000	300
129-00-0	Pyrene	210	NA	180	210
	Pesticides				
72-54-8	4,4'-DDD	0.14	NA	0.28	0.14
72-55-9	4,4'-DDE	NA	NA	0.2	0.2
50-29-3	4,4'-DDT	0.1	NA	0.2	0.1
309-00-2	Aldrin	NA	NA	0.0043	0.0043
319-84-6	alpha-BHC	0.019(total)	NA	0.011	0.019 (total)
5103-71-9	alpha-Chlordane	0.027	NA	NA	0.027 (total)
319-85-7	beta-BHC	0.019(total)	NA	0.037	0.019 (total)
319-86-8	delta-BHC	0.019(total)	NA	NA	0.019 (total)
60-57-1	Dieldrin	0.0022	NA	0.0042	0.0022
959-98-8	Endosulfan I	NA	NA	NA	NA
33213-65-9	Endosulfan II	42	NA	NA	42
1031-07-8	Endosulfan sulfate	NA	NA	NA	NA
72-20-8	Endrin	2 (total)	2	11	2 (total)
7421-93-4	Endrin aldehyde	2 (total)	NA	NA	2 (total)
53494-70-5	Endrin ketone	2 (total)	NA	NA	2 (total)
58-89-9	gamma-BHC (Lindane)	0.2	0.2	0.052	0.2
5103-74-2	gamma-Chlordane	0.027 (total)	NA	NA	0.027 (total)
76-44-8	Heptachlor	0.008	0.4	0.015	0.008
1024-57-3	Heptachlor epoxide	0.004	0.2	0.0074	0.004
72-43-5	Methoxychlor	35	40	180	35
8001-35-2	Toxaphene	0.031	3	0.061	0.031
	PCBs				
12674-11-2	Aroclor 1016	NA	0.5	0.96	0.5
11104-28-2	Aroclor 1221	NA	0.5	0.034	0.5
11141-16-5	Aroclor 1232	NA	0.5	0.034	0.5
53469-21-9	Aroclor 1242	NA	0.5	0.034	0.5
12672-29-6	Aroclor 1248	NA	0.5	0.034	0.5
11097-69-1	Aroclor 1254	NA	0.5	0.034	0.5
11096-82-5	Aroclor 1260	NA	0.5	0.034	0.5
37324-23-5	Aroclor 1262	NA	0.5	0.034	0.5
11100-14-4	Aroclor 1268	NA	0.5	0.034	0.5
	Herbicides				
93-76-5	2,4,5-T	NA	NA	360	360
93-72-1	2,4,5-TP (Silvex)	50	50	290	50
94-75-1	2,4-D	70	70	360	70

**Table 4: PROJECT SCREENING LEVELS** 

CAS No.	Explosives	NC (a)	Federal MCL (b)	Region 9 Tap Water PRG (c)	Screening Level
00.05.4	•	μg/L	μg/L	μg/L	μg/L
99-35-4	1,3,5-Trinitrobenzene (1,3,5-TNB)	NA	NA	1,100	1,100
99-65-0	1,3-Dinitrobenzene (1,3-DNB)	NA	NA	3.6	3.6
118-96-7	2,4,6-Trinitrotoluene (2,4,6-TNT)	NA	NA	2.2	2.2
121-14-2	2,4-Dinitrotoluene (2,4-DNT)	NA	NA	73	73
606-20-2	2,6-Dinitrotoluene (2,6-DNT)	NA	NA	36	36
355-72-78-2	2-Amino-4,6-dinitrotoluene (2-AM-DNT)	NA	NA	NA	NA
88-72-2	2-Nitrotoluene (O-NITROTOLUENE)	NA	NA	61	61
99-08-1	3-Nitrotoluene (M-NITROTOLUENE)	NA	NA	61	61
1946-51-0	4-Amino-2,6-dinitrotoluene (4-AM-DNT)	NA	NA	NA	NA
99-99-0	4-Nitrotoluene (P-NITROTOLUENE)	NA	NA	61	61
121-82-4	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	NA	NA	0.61	0.61
479-45-8	Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	NA	NA	360	360
98-95-3	Nitrobenzene (NB)	NA	NA	3.4	3.4
2691-41-0	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	NA	NA	1800	1800
55-63-0	Nitroglycerine	NA	NA	4.8	4.8
	Perchlorate				
14797-73-0	Perchlorate	NA	NA	3.6	3.6
	Metals *				
7429-90-5	Aluminum	NA	200 (s)	36,000	36,000
7440-36-0	Antimony	NA	6	15	6
7440-38-2	Arsenic	10	10	0.045	10
7440-39-3	Barium	2,000	2,000	2,600	2,000
7440-41-7	Beryllium	NA	4	73	4
7440-43-9	Cadmium	5	5	18	5
7440-70-2	Calcium	NA	NA	NA	NA
7440-47-3	Chromium	50	100	110	50
7440-48-4	Cobalt	NA	NA	730	730
7440-50-8	Copper	1000	1000 (s)	1,500	1000
7439-89-6	Iron	300	300(s)	11,000	300
7439-92-1	Lead	15	15 (al)	NA	15
7439-95-4	Magnesium	NA	NA	NA	NA
7439-96-5	Manganese	50	50(s)	880	50
7439-97-6	Mercury	1.1	2	11	1.1
7440-02-0	Nickel	100	NA	730	100
7440-09-7	Potassium	NA	NA	NA	NA
7782-49-2	Selenium	50	50	180	50
7440-22-4	Silver	18	100 (s)	180	18
7440-23-5	Sodium	NA	NA NA	NA	NA
7440-28-0	Thallium	NA	2	2.4	2
7440-62-2	Vanadium	NA	NA NA	260	260
7440-66-6	Zinc	2,100	5,000 (s)	11,000	2,100
		2,100	2,000 (5)	11,000	-,100
57-12-5	Cyanide	154	200	730	154

<sup>\*</sup> Site background results may be used as the project screening level if determined appropriate by the project team

# NOTES:

- (a) North Carolina groundwater quality standards in 15A NCAC 02L.0202  $\,$
- (b) Federal Maximum Contaminant Levels (MCLs) in 40 CFR 141.61 and 141.62
- $\hbox{ (c) Environmental Protection Agency (EPA) Region 9 Preliminary Remediation Goals (PRGs) (dated October 1, 2002) found at \\ \hbox{ http://www.epa.gov/region09/waste/sfund/prg/index.htm}$

CAS No. - Chemical Abstracts Service Registry Number

 $\mu\,g/L$  - micrograms/Liter

NA- Not available

s- Secondary MCL

al- Action Level

I - NC Interim Standard

**Table 5: ANALYTICAL RESULTS** 

			Sample ID: Sample Date/Time:		RW0804-652- LAKEVIEWDR 8/9/2004 1:50:00 PM	RW0804-653- LAKEVIEWDR 8/9/2004 3:25:00 PM	RW0804- FIELDDUP1 (b) 8/9/2004 3:25:00 PM
			Matrix:	12:30:00 PM GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			5	
Vol	latile Organic Compounds (VOCs)						
8260B	1,1,1-Trichloroethane	200	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,1-Dichloroethane	700	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	1,1-Dichloroethene 1,2,3-Trichlorobenzene	NA	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	μg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	μg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	μg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,2-Dichloropropane 1,3-Dichlorobenzene	0.56 620	μg/L	1 U 1 U	<b>1 U</b> 1 U	1 U 1 U	1 U 1 U
8260B	1,4-Dichlorobenzene	75	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	μg/L μg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	μg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	μg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	μg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	μg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA 0.7.1	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	Bromodichloromethane Bromoform	0.56 0.19	μg/L	1 U 4 U	1 U 4 U	1 U 4 U	1 U 4 U
8260B 8260B	Bromomethane	8.7	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	Carbon disulfide	700	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	μg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	μg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	μg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	μg/L	1 U	1 U	1 U	1 U
8260B	Chloromethane	2.6	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	cis-1,2-Dichloroethene cis-1,3-Dichloropropene	70 0.19	μg/L μg/L	1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B 8260B	Cyclohexane	35,000	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	μg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	μg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	μg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	μg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Methyl Acetate Methyl tert-butyl ether	6,100	μg/L μg/L	5 U 1 U	5 U 1 U	5 U 1 U	5 U 1 U
8260B	Methylcyclohexane	NA	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	μg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	μg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	μg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Total Xylenes trans-1,2-Dichloroethene	530 70	μg/L μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B 8260B	Trichloroethene	2.8	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	μg/L	1 U	1 U	1 U	1 U
Semi-v	volatile Organic Compounds (SVOCs)						
8270C	1,2,4,5-Tetrachlorobenzene	11	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	1,4-Dioxane	7	μg/L	2.2 UJ	2.5 UJ	2.4 UJ	2.1 UJ
8270C	2,3,4,6-Tetrachlorophenol	210	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2,4,5-Trichlorophenol	3,600	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C 8270C	2,4,6-Trichlorophenol	3.6	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C 8270C	2,4-Dichlorophenol 2,4-Dimethylphenol	110 140	μg/L μg/L	5.6 U 5.6 U	6.3 U 6.3 U	6.1 U 6.1 U	5.2 U 5.2 U
8270C 8270C	2,4-Dinitrophenol	73	μg/L μg/L	22 U	25 U	24 U	21 U
8270C	2,4-Dinitrotoluene	73	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	2,6-Dinitrotoluene	36	μg/L	2.2 U	2.5 U	2.4 U	2.1 U

**Table 5: ANALYTICAL RESULTS** 

		Sai	mple ID:	RW0804-NCNG	RW0804-652- LAKEVIEWDR	RW0804-653- LAKEVIEWDR	RW0804- FIELDDUP1 (b)
		Sample Da	te/Time:	8/9/2004 12:30:00 PM	8/9/2004 1:50:00 PM	8/9/2004 3:25:00 PM	8/9/2004 3:25:00 PM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
	SVOCs (cont.)						
8270C	2-Chloronaphthalene	490	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2-Chlorophenol	0.1	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C 8270C	2-Methyl-4,6-dinitrophenol 2-Methylnaphthalene	NA 14	μg/L	22 U	25 U	24 U 2.4 U	21 U
8270C 8270C	2-Methylphenol	1,800	μg/L μg/L	2.2 U 5.6 U	2.5 U 6.3 U	6.1 U	2.1 U 5.2 U
8270C 8270C	2-Nitroaniline	1,800	μg/L μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2-Nitrophenol	NA	μg/L μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	3,3'-Dichlorobenzidine	0.15	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	3-Nitroaniline	NA NA	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Bromophenyl phenyl ether	NA	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	4-Chloro-3-methylphenol	NA	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Chloroaniline	150	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Chlorophenyl phenyl ether	NA	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	4-Nitroaniline	NA	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Nitrophenol	NA	μg/L	22 U	25 U	24 U	21 U
8270C	Acenaphthene	80	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Acenaphthylene	210	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Acetophenone	NA	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Anthracene	2,100	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Atrazine	3	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Benzaldehyde	3,600	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Benzo(a)anthracene	0.0479	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C 8270C	Benzo(a)pyrene Benzo(b)fluoranthene	0.00479 0.0479	μg/L μg/L	2.2 U 2.2 U	2.5 U 2.5 U	2.4 U 2.4 U	2.1 U 2.1 U
8270C 8270C	Benzo(g,h,i)perylene	210	μg/L μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Benzo(k)fluoranthene	0.479	μg/L μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Biphenyl	300	μg/L μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	bis(2-Chloroethoxy)methane	NA	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Bis(2-chloroethyl) ether	0.031	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Bis(2-chloroisopropyl) ether	0.27	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Bis(2-ethylhexyl) phthalate	3	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Butylbenzyl phthalate	100	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Caprolactam	3,500	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Carbazole	3.4	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Chrysene	4.79	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Dibenz(a,h)anthracene	0.0047	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Dibenzofuran	28	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Diethyl phthalate	5,000	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Dimethyl phthalate	360,000	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Di-n-butyl phthalate	700	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Di-n-octyl phthalate	140	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C 8270C	Fluoranthene Fluorene	280	μg/L	2.2 U 2.2 U	2.5 U 2.5 U	2.4 U 2.4 U	2.1 U 2.1 U
8270C 8270C	Hexachlorobenzene	280 0.02	μg/L	2.2 U 2.2 U	2.5 U 2.5 U	2.4 U 2.4 U	2.1 U
8270C 8270C	Hexachlorobenzene Hexachlorobutadiene	0.02	μg/L μg/L	2.2 U 2.2 U	2.5 U 2.5 U	2.4 U 2.4 U	2.1 U 2.1 U
8270C 8270C	Hexachlorocyclopentadiene	50	μg/L μg/L	22 U	2.5 U	24 U	21 U
8270C	Hexachloroethane	4.8	μg/L μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	μg/L μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Isophorone	36.8	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Naphthalene	21	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Nitrobenzene	3.4	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	N-Nitroso-di-n-propylamine	0.0096	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	N-Nitrosodiphenylamine	14	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Phenanthrene	210	μg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Phenol	300	μg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Pyrene	210	μg/L	2.2 U	2.5 U	2.4 U	2.1 U

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-NCNG	RW0804-652- LAKEVIEWDR	RW0804-653- LAKEVIEWDR	RW0804- FIELDDUP1 (b)
		Sample Da	te/Time:	8/9/2004 12:30:00 PM	8/9/2004 1:50:00 PM	8/9/2004 3:25:00 PM	8/9/2004 3:25:00 PM
			Matrix:	GW	GW	GW	GW
			matrix.	GW	GW .	GW	GW
Analytical		Project Screening					
Method	Analyte	Level (a)	Units				
	Pesticides/PCBs						
8081A	4,4'-DDD	0.14	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	4,4'-DDE	0.2	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	4,4'-DDT	0.1	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Aldrin	0.0043	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	alpha-BHC	0.019	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	alpha-Chlordane	0.027	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	beta-BHC	0.019	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	delta-BHC	0.019	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A 8081A	Dieldrin Endosulfan I	0.0022 NA	μg/L	0.021 UJ 0.021 UJ	0.021 UJ 0.021 UJ	0.023 UJ 0.023 UJ	0.024 UJ
8081A 8081A	Endosulfan I Endosulfan II	NA 42	μg/L	0.021 UJ 0.021 UJ	0.021 UJ 0.021 UJ	0.023 UJ 0.023 UJ	0.024 UJ 0.024 UJ
8081A 8081A	Endosulfan II Endosulfan sulfate	NA	μg/L	0.021 UJ 0.021 UJ	0.021 UJ 0.021 UJ	0.023 UJ 0.023 UJ	0.024 UJ 0.024 UJ
8081A	Endrin Endrin	2	μg/L μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endrin aldehyde	2	μg/L μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endrin aldenyde Endrin ketone	2	μg/L μg/L	0.021 UJ 0.053 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	gamma-BHC	0.2	μg/L μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	gamma-Chlordane	0.027	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Heptachlor	0.008	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Heptachlor epoxide	0.004	μg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Methoxychlor	35	μg/L	0.053 UJ	0.053 UJ	0.058 UJ	0.06 UJ
8081A	Toxaphene	0.031	μg/L	0.26 U	0.27 U	0.29 U	0.3 U
8082	Aroclor 1016	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1221	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1232	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1242	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1248	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1254	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1260	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1262	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1268	0.5	μg/L	0.53 U	0.53 U	0.58 U	0.6 U
	W. 1991		1				
01514	Herbicides	260	7	0.22.11	0.22.11	0.22.11	0.22.11
8151A 8151A	2,4,5-T 2,4,5-TP (Silvex)	360 50	μg/L	0.23 U 0.17 U	0.22 U 0.16 U	0.22 U 0.17 U	0.23 U 0.17 U
8151A 8151A	Pentachlorophenol	0.3	μg/L	0.17 U	0.16 U	0.17 U	0.17 U
0131A	Explosives/Nitroglycerin	0.3	μg/L	0.17 0	0.10 U	0.17 U	0.1 / U
8330	1,3,5-Trinitrobenzene	1,100	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	1,3-Dinitrobenzene	3.6	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2,4,6-Trinitrotoluene	2.2	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2,4-Dinitrotoluene	73	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2,6-Dinitrotoluene	36	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2-Nitrotoluene	61	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	3-Nitrotoluene	61	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	4-Nitrotoluene	61	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Nitrobenzene	3.4	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	μg/L	0.22 U	0.22 U	0.21 U	0.22 U
8332	Nitroglycerine	4.8	μg/L	2.2 U	2.2 U	2.1 U	2.2 U
	Perchlorate						
8321M	Perchlorate	3.6	μg/L	0.294	3.94	0.335	0.291

**Table 5: ANALYTICAL RESULTS** 

		Sa Sample Da	mple ID:	RW0804-NCNG 8/9/2004	RW0804-652- LAKEVIEWDR 8/9/2004	RW0804-653- LAKEVIEWDR 8/9/2004	RW0804- FIELDDUP1 (b) 8/9/2004
		•		12:30:00 PM	1:50:00 PM	3:25:00 PM	3:25:00 PM
		1	Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
	Total Metals						
6010B	Aluminum, Total	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Total	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L	200 U	18.9 J	200 U	200 U
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA To	μg/L	34,500	6,430	11,800	11,700
6010B	Chromium, Total	50	μg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Total	730	μg/L	50 U	50 U	50 U	50 U
6010B	Copper, Total	1,000 300	μg/L	131 100 U	9 J <b>844</b>	11.1 J 100 U	10.2 J 100 U
6010B 6010B	Iron, Total Lead, Total	15	μg/L μg/L	14.8	844 3 U	8.2	7.1
6010B	Magnesium, Total	NA NA	μg/L μg/L	9,100	1,440 J	3,420 J	3,380 J
6010B	Manganese, Total	50	μg/L μg/L	4.7 UJ	533	8.2 UJ	8 UJ
7470A	Mercury, Total	1.1	μg/L μg/L	0.2 U	0.2 U	0.2 U	0.15 J
6010B	Nickel, Total	100	μg/L	40 U	40 U	3.7 J	2.1 UJ
6010B	Potassium, Total	NA	ug/L	595 J	1,050 J	5,000 U	5,000 U
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	μg/L	10,900	7,560	11,000	11,200
6020	Thallium, Total	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Total	260	μg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Total	2,100	μg/L	364	958	10.5 J	10.5 J
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
	Dissolved Metals						
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L	4.4 UJ	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	μg/L	200 U	18 J	200 U	200 U
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA 50	μg/L	34,600	6,340	11,100	11,400
6010B	Chromium, Dissolved	50	μg/L	10 U	10 U	10 U	10 U
6010B 6010B	Cobalt, Dissolved Copper, Dissolved	730 1.000	μg/L	50 U 25 U	50 U	50 U 5.2 J	50 U 4.6 J
6010B	Iron, Dissolved	300	μg/L	25 U 100 U	5 J 100 U	5.2 J 100 U	4.6 J 100 U
6010B	Lead, Dissolved	15	μg/L μg/L	2.8 J	3 U	3 U	2.9 J
6010B	Magnesium, Dissolved	NA	μg/L μg/L	9.220	1.440 J	3,250 J	3.350 J
6010B	Manganese, Dissolved	50	μg/L μg/L	4.1 UJ	516	5,230 J	5,4 UJ
7470A	Mercury, Dissolved	1.1	μg/L μg/L	0.2 U	0.2 U	0.092 J	0.2 U
6010B	Nickel, Dissolved	100	μg/L	40 U	40 U	4.4 J	3 UJ
6010B	Potassium, Dissolved	NA	ug/L	623 J	1,060 J	5,000 U	5,000 U
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	μg/L	11,200	7,510	10,600	10,900
6020	Thallium, Dissolved	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	μg/L	50 U	50 U	50 U	50 U
6010B µg/L - microo	Zinc, Dissolved	2,100	μg/L	275	925	11.1 J	10.6 J

J - Estimated value.

J - Estimated value.
NA - Not available.
U - Not detected below reported detection limit.
UJ - Not detected below reported detection limit. Detection limit is an estimated value.
Bolded result exceeds project screening level.
(a) As determined by the USACE and NCDENR in the Field Sampling Plan.
(b) Duplicate of sample RW0804-653-LakeviewDr.
(c) Duplicate of sample RW0804-4578-UzzleRd.
(d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 5: ANALYTICAL RESULTS** 

		mple ID:	RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON	
		Sample Da	nte/Time:	8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
	atile Organic Compounds (VOCs)						
8260B 8260B	1,1,1-Trichloroethane	200 0.17	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	5	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	μg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	μg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA 70	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane	70 0.025	μg/L μg/L	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U
8260B	1,2-Dibromoethane	0.0004	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	μg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,2-Dichloropropane 1,3-Dichlorobenzene	0.56 620	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	1,4-Dichlorobenzene	75	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	μg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	μg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	Acetone Benzene	700	μg/L	10 U 1 U	10 U 1 U	10 U 1 U	10 U 1 U
8260B	Bromochloromethane	NA NA	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	μg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	μg/L	4 U	4 U	4 U	4 U
	Bromomethane	8.7	μg/L	2 UJ	2 U	2 U	2 U
8260B	Carbon disulfide	700	μg/L	2 U	2 U	2 U	2 U
8260B 8260B	Carbon tetrachloride Chlorobenzene	0.3 50	μg/L μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	Chloroethane	2,800	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	μg/L	1 U	1 U	1 U	0.23 J
8260B	Chloromethane	2.6	μg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	cis-1,3-Dichloropropene Cyclohexane	0.19 35,000	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U
8260B	Dibromochloromethane	0.41	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	μg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	μg/L	1 U	1 U	1 U	1 U
	Freon 113	210,000	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	Isopropylbenzene M,P-Xylene	70 530	μg/L μg/L	2 U 1 U	2 U 1 U	2 U 1 U	2 U 1 U
8260B	Methyl Acetate	6,100	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	μg/L	1 UJ	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	μg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	μg/L	2 U	2 U	2 U	2 U
8260B 8260B	o-Xylene Styrene	530 100	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U
	Tetrachloroethene	0.7	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	μg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	μg/L	1 U	1 U	1 U	1 U
	trans-1,2-Dichloroethene	70	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Trichloroethene Trichlorofluoromethane	2.8 2,100	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U
8260B	Vinyl chloride	0.015	μg/L μg/L	1 U	1 U	1 U	1 U
Semi-v	volatile Organic Compounds (SVOCs)						
8270C	1,2,4,5-Tetrachlorobenzene	11	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	1,4-Dioxane	7	μg/L	2 UJ	2.1 UJ	2.1 UJ	2.2 UJ
	2,3,4,6-Tetrachlorophenol	210	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C 8270C	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	3,600 3.6	μg/L μg/L	5 U 5 U	5.3 U 5.3 U	5.3 U 5.3 U	5.5 U 5.5 U
8270C	2,4-Dichlorophenol	110	μg/L μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2,4-Dimethylphenol	140	μg/L	5 U	5.3 U	5.3 U	5.5 U
	2,4-Dinitrophenol	73	μg/L	20 U	21 U	21 U	22 U
8270C	2,4-Dinitrotoluene	73	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	2,6-Dinitrotoluene	36	μg/L	2 U	2.1 U	2.1 U	2.2 U

**Table 5: ANALYTICAL RESULTS** 

		mple ID:	RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON	
				8/9/2004	8/9/2004	8/10/2004	8/10/2004
		Sample Da	te/Time:	4:40:00 PM	5:35:00 PM	9:05:00 AM	10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Method	SVOCs (cont.)	Ecver (a)	Cints				
8270C	2-Chloronaphthalene	490	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2-Chlorophenol	0.1	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2-Methyl-4,6-dinitrophenol	NA	μg/L	20 U	21 U	21 U	22 U
8270C	2-Methylnaphthalene	14	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C 8270C	2-Methylphenol 2-Nitroaniline	1,800	μg/L	5 U 5 U	5.3 U 5.3 U	5.3 U 5.3 U	5.5 U 5.5 U
8270C 8270C	2-Nitrophenol	1 NA	μg/L μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	3,3'-Dichlorobenzidine	0.15	μg/L μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	3-Nitroaniline	NA NA	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Bromophenyl phenyl ether	NA	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	4-Chloro-3-methylphenol	NA	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Chloroaniline	150	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Chlorophenyl phenyl ether	NA	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	4-Nitroaniline	NA	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Nitrophenol	NA	μg/L	20 U	21 U	21 U	22 U
8270C	Acenaphthene	80	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Acenaphthylene	210	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Acetophenone	NA 2.100	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C 8270C	Anthracene Atrazine	2,100	μg/L μg/L	2 U 5 U	2.1 U 5.3 U	2.1 U 5.3 U	2.2 U 5.5 U
8270C	Benzaldehyde	3,600	μg/L μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Benzo(a)anthracene	0.0479	μg/L μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(a)pyrene	0.00479	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(b)fluoranthene	0.0479	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(g,h,i)perylene	210	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(k)fluoranthene	0.479	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Biphenyl	300	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	bis(2-Chloroethoxy)methane	NA	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Bis(2-chloroethyl) ether	0.031	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C 8270C	Bis(2-ethylhexyl) phthalate	3 100	μg/L	2 U 2 U	2.1 U	2.1 U 2.1 U	<b>9.3</b> 2.2 U
8270C 8270C	Butylbenzyl phthalate Caprolactam	3,500	μg/L μg/L	2 U	2.1 U 2.1 U	2.1 U	2.2 U
8270C 8270C	Carbazole	3.4	μg/L μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Chrysene	4.79	μg/L μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Dibenz(a,h)anthracene	0.0047	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Dibenzofuran	28	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Diethyl phthalate	5,000	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Dimethyl phthalate	360,000	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Di-n-butyl phthalate	700	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Di-n-octyl phthalate	140	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Fluoranthene	280	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Fluorene	280	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C 8270C	Hexachlorobenzene Hexachlorobutadiene	0.02 0.44	μg/L μg/L	2 U 2 U	2.1 U 2.1 U	2.1 U 2.1 U	2.2 U 2.2 U
8270C 8270C	YY 11 1 1'	50	- 7	20 U	21 U	21 U	22 U
8270C 8270C	Hexachlorocyclopentadiene Hexachloroethane	4.8	μg/L μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	μg/L μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Isophorone	36.8	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Naphthalene	21	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Nitrobenzene	3.4	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	N-Nitrosodiphenylamine	14	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Phenanthrene	210	μg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Phenol	300	μg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Pyrene	210	μg/L	2 U	2.1 U	2.1 U	2.2 U

**Table 5: ANALYTICAL RESULTS** 

		Sai	mple ID:	RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON
		Sample Da	te/Time:	8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical		Project Screening					
Method	Analyte	Level (a)	Units				
	Pesticides/PCBs						
8081A	4,4'-DDD	0.14	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	4,4'-DDE	0.2	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	4,4'-DDT	0.1	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Aldrin alpha-BHC	0.0043 0.019	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ 0.021 UJ
8081A 8081A	alpha-Chlordane	0.019	μg/L	0.022 UJ 0.022 UJ	0.022 UJ 0.022 UJ	0.022 UJ 0.022 UJ	0.021 UJ
8081A	beta-BHC	0.027	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	delta-BHC	0.019	μg/L μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Dieldrin	0.0022	μg/L μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endosulfan I	NA	μg/L μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endosulfan II	42	μg/L μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endosulfan fil Endosulfan sulfate	NA	μg/L μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endrin	2	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endrin aldehyde	2	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endrin ketone	2	μg/L	0.056 UJ	0.054 UJ	0.055 UJ	0.053 UJ
8081A	gamma-BHC	0.2	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	gamma-Chlordane	0.027	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Heptachlor	0.008	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Heptachlor epoxide	0.004	μg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Methoxychlor	35	μg/L	0.056 UJ	0.054 UJ	0.055 UJ	0.053 UJ
8081A	Toxaphene	0.031	μg/L	0.28 U	0.27 U	0.27 U	0.27 U
8082	Aroclor 1016	0.5	μg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1221	0.5	μg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1232	0.5	μg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1242	0.5	μg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082 8082	Aroclor 1248 Aroclor 1254	0.5	μg/L	0.56 U 0.56 U	0.54 U 0.54 U	0.55 U	0.53 U 0.53 U
8082	Aroclor 1254 Aroclor 1260	0.5	μg/L	0.56 U	0.54 U	0.55 U 0.55 U	0.53 U
8082	Aroclor 1260 Aroclor 1262	0.5	μg/L μg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1268	0.5	μg/L μg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Arocioi 1200	0.5	μg/L	0.50 C	0.54 0	0.55 C	0.55 0
	Herbicides						
8151A	2,4,5-T	360	μg/L	0.23 U	0.23 U	0.23 U	0.23 U
8151A	2,4,5-TP (Silvex)	50	μg/L	0.17 U	0.17 U	0.17 U	0.17 U
8151A	Pentachlorophenol	0.3	μg/L	0.17 U	0.17 U	0.17 U	0.17 U
	Explosives/Nitroglycerin						
8330	1,3,5-Trinitrobenzene	1,100	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	1,3-Dinitrobenzene	3.6	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2,4,6-Trinitrotoluene	2.2	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2,4-Dinitrotoluene	73	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2,6-Dinitrotoluene	36	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2-Nitrotoluene	61	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	3-Nitrotoluene	61	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	4-Nitrotoluene	61	μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330 8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	μg/L	0.21 U 0.21 U	0.22 UJ 0.22 UJ	0.22 UJ 0.22 UJ	0.25 UJ 0.25 UJ
8330	Methyl-2,4,6-trinitrophenylnitramine Nitrobenzene	360 3.4	μg/L μg/L	0.21 U 0.21 U	0.22 UJ 0.22 UJ	0.22 UJ 0.22 UJ	0.25 UJ 0.25 UJ
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	μg/L μg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8332	Nitroglycerine	4.8	μg/L μg/L	2.1 U	2.2 U	2.2 UJ	2.5 UJ
0332	1 mogryceine	7.0	μg/L	2.1 0	2.2 0	2.2 UJ	2.J UJ
	Perchlorate						
8321M	Perchlorate	3.6	μg/L	0.254	0.05 U	0.227 J	0.504
				-			

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON
		Sample Da	nte/Time:	8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Withou	Total Metals	Dever (u)	Cints				
6010B	Aluminum, Total	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Total	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L	5.2 J	8.5 J	200 U	200 U
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA	μg/L	35,000	5,780	23,500	10,200
6010B	Chromium, Total	50	μg/L	10 U	10 U	10 U	0.92 UJ
6010B	Cobalt, Total	730	μg/L	50 U	50 U	50 U	50 U
6010B	Copper, Total	1,000	μg/L	25 U	6.3 J	16.5 J	25
6010B	Iron, Total	300	μg/L	179 U	385	100 U	100 U
6010B	Lead, Total	15	μg/L	3 U	3 U	8.2	12.1
6010B	Magnesium, Total	NA 50	μg/L	5,600	3,560 J	5,310	4,060 J
6010B	Manganese, Total	50	μg/L	19	93.4	15 U	2.8 UJ
7470A 6010B	Mercury, Total Nickel, Total	1.1	μg/L μg/L	0.2 U 40 U	0.2 U 2.2 UJ	0.2 U 40 U	0.2 U 40 U
6010B	Potassium, Total	NA	μg/L ug/L	849 J	1,190 J	5,000 U	5,000 U
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	μg/L μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	μg/L μg/L	9,880	8,240	10,300	10,400
6020	Thallium, Total	2	μg/L	0.97 J	1 U	1 U	1 U
6010B	Vanadium, Total	260	μg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Total	2,100	μg/L	19.5 J	16.3 J	57	26.9
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
	Dissolved Metals						
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L	5 U	4.5 UJ	5 U	5.2 U
6010B	Barium, Dissolved	2,000	μg/L	5.5 J	8.7 J	200 U	200 U
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	μg/L	35,500	5,970	22,900	10,400
6010B	Chromium, Dissolved	50	μg/L	10 U	10 U	2.6 UJ	1.3 UJ
6010B	Cobalt, Dissolved	730	μg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	μg/L	2.7 J	4.2 J	25 U	10.1 J
6010B	Iron, Dissolved	300	μg/L	100 U	100 U	100 U	100 U
6010B 6010B	Lead, Dissolved	15 NA	μg/L	3 U 5,710	3 U 3.700 J	35.7 5.260	3 U 4.170 J
6010B	Magnesium, Dissolved Manganese, Dissolved	50	μg/L	18.5	3,700 J <b>96.4</b>	5,260 15 U	4,170 J 2.8 UJ
7470A	Manganese, Dissolved Mercury, Dissolved	1.1	μg/L μg/L	0.2 U	9 <b>6.4</b> 0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	1.1	μg/L μg/L	2.4 UJ	40 U	2.2 UJ	40 U
6010B	Potassium, Dissolved	NA	μg/L ug/L	950 J	1,260 J	5,000 U	5,000 U
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA NA	μg/L	9,940	8,380	10,300	10,200
6020	Thallium, Dissolved	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	μg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	μg/L	18.5 J	18.6 J	69.9	22.2

J - Estimated value.

J - Estimated value.
NA - Not available.
U - Not detected below reported detection limit.
UJ - Not detected below reported detection limit. Detection limit is an estimated value.
Bolded result exceeds project screening level.
(a) As determined by the USACE and NCDENR in the Field Sampling Plan.
(b) Duplicate of sample RW0804-653-LakeviewDr.
(c) Duplicate of sample RW0804-4578-UzzleRd.
(d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTLEMOUNTAIN	RW0804-4535- UZZLERD
		Sample Da	ate/Time:	8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Vo	latile Organic Compounds (VOCs)						
8260B	1,1,1-Trichloroethane	200	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,1,2-Trichloroethane	5 700	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	1,1-Dichloroethane 1,1-Dichloroethene	700	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	μg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	μg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	μg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	μg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,2-Dichloroethane 1,2-Dichloropropane	0.38	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B 8260B	1,3-Dichlorobenzene	620	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	μg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	μg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	μg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	μg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	μg/L	10 U	10 U	10 U	10 U
8260B 8260B	Benzene Bromochloromethane	1 NA	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U
8260B	Bromodichloromethane	0.56	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	μg/L	4 U	4 U	4 U	4 U
8260B	Bromomethane	8.7	μg/L	2 U	2 U	2 U	2 U
8260B	Carbon disulfide	700	μg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	μg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Chloroethane Chloroform	2,800 0.19	μg/L μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	Chloromethane	2.6	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	μg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	μg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	μg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Dichlorodifluoromethane Ethylbenzene	1,400	μg/L μg/L	5 U 1 U	5 U 1 U	5 U 1 U	5 U
8260B	Freon 113	210,000	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	μg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	μg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	μg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	μg/L	1 U	1 U	1 U	1 U
8260B	Methylcyclohexane	NA 5	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	Methylene chloride o-Xylene	5 530	μg/L μg/L	2 U 1 U	2 U 1 U	2 U 1 U	2 U 1 U
8260B	Styrene	100	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	μg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	μg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	μg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Trichloroethene Trichlorofluoromethane	2.8 2,100	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U
8260B	Vinyl chloride	0.015	μg/L μg/L	1 U	1 U	1 U	1 U
	volatile Organic Compounds (SVOCs)	5.515	F-8/2				
8270C	1,2,4,5-Tetrachlorobenzene	11	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	1,4-Dioxane	7	μg/L	2 UJ	2.2 UJ	2.2 UJ	2 U
8270C	2,3,4,6-Tetrachlorophenol	210	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4,5-Trichlorophenol	3,600	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4,6-Trichlorophenol	3.6	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4-Dichlorophenol	110	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C 8270C	2,4-Dimethylphenol 2,4-Dinitrophenol	140 73	μg/L μg/L	5.1 U 20 U	5.6 U 22 U	5.5 U 22 U	5.1 U 20 U
8270C 8270C	2,4-Dinitrotoluene	73	μg/L μg/L	2 U	2.2 U	2.2 U	2 U
8270C	2,6-Dinitrotoluene	36	μg/L	2 U	2.2 U	2.2 U	2 U

**Table 5: ANALYTICAL RESULTS** 

			mple ID:	RW0804-4051- RANGERD 8/10/2004	RW0804-4149- RANGERD 8/10/2004	RW0804-750- LITTLEMOUNTAIN 8/10/2004	RW0804-4535- UZZLERD 8/11/2004
		Sample Da		1:00:00 PM	2:05:00 PM	5:05:00 PM	10:40:00 AM
Analytical Method	Analyte	Project Screening Level (a)	Matrix:	GW	GW	GW	GW
	SVOCs (cont.)						
8270C	2-Chloronaphthalene	490	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Chlorophenol	0.1	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Methyl-4,6-dinitrophenol	NA 1.4	μg/L	20 U	22 U	22 U	20 U
8270C 8270C	2-Methylnaphthalene 2-Methylphenol	14	μg/L μg/L	2 U 5.1 U	2.2 U 5.6 U	2.2 U 5.5 U	2 U 5.1 U
8270C 8270C	2-Nitroaniline	1,800	μg/L μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Nitrophenol	NA NA	μg/L μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	3,3'-Dichlorobenzidine	0.15	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	3-Nitroaniline	NA	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Bromophenyl phenyl ether	NA	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	4-Chloro-3-methylphenol	NA	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Chloroaniline	150	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Chlorophenyl phenyl ether	NA NA	μg/L	2 U	2.2 U	2.2 U	2 U
8270C 8270C	4-Nitroaniline 4-Nitrophenol	NA NA	μg/L μg/L	5.1 U 20 U	5.6 U 22 U	5.5 U 22 U	5.1 U 20 U
8270C 8270C	Acenaphthene	80	μg/L μg/L	20 U	2.2 U	2.2 U	2 U
8270C	Acenaphthylene	210	μg/L μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Acetophenone	NA	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Anthracene	2,100	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Atrazine	3	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Benzaldehyde	3,600	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Benzo(a)anthracene	0.0479	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Benzo(a)pyrene	0.00479	μg/L	2 U	2.2 U	2.2 U	2 U
8270C 8270C	Benzo(b)fluoranthene	0.0479	μg/L	2 U 2 U	2.2 U 2.2 U	2.2 U 2.2 U	2 U 2 U
8270C 8270C	Benzo(g,h,i)perylene Benzo(k)fluoranthene	0.479	μg/L μg/L	2 U	2.2 U	2.2 U	2 U
8270C 8270C	Biphenyl	300	μg/L μg/L	2 U	2.2 U	2.2 U	2 U
8270C	bis(2-Chloroethoxy)methane	NA NA	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Bis(2-chloroethyl) ether	0.031	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Bis(2-ethylhexyl) phthalate	3	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Butylbenzyl phthalate	100	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Caprolactam	3,500	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Carbazole	3.4	μg/L	2 U	2.2 U	2.2 U	2 U
8270C 8270C	Chrysene	4.79 0.0047	μg/L	2 U 2 U	2.2 U 2.2 U	2.2 U	2 U 2 U
8270C 8270C	Dibenz(a,h)anthracene Dibenzofuran	28	μg/L μg/L	5.1 U	5.6 U	<b>2.2 U</b> 5.5 U	5.1 U
8270C	Diethyl phthalate	5,000	μg/L μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Dimethyl phthalate	360,000	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Di-n-butyl phthalate	700	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Di-n-octyl phthalate	140	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Fluoranthene	280	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Fluorene	280	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Hexachlorobenzene Hexachlorobutadiene	0.02	μg/L	2 U	2.2 U	2.2 U	2 U
8270C 8270C	Hexachlorobutadiene Hexachlorocyclopentadiene	0.44 50	μg/L μg/L	2 U 20 U	2.2 U 22 U	2.2 U 22 U	2 U 20 U
8270C 8270C	Hexachloroethane	4.8	μg/L μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	μg/L μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Isophorone	36.8	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Naphthalene	21	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	Nitrobenzene	3.4	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	μg/L	2 U	2.2 U	2.2 U	2 U
8270C	N-Nitrosodiphenylamine	14	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Phenanthrene	210	μg/L	2 U	2.2 U	2.2 U	2 U
8270C 8270C	Phenol Pyrene	300	μg/L	5.1 U	5.6 U	5.5 U	5.1 U
02/UC	1 yione	210	μg/L	2 U	2.2 U	2.2 U	2 U

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTLEMOUNTAIN	RW0804-4535- UZZLERD
		Sample Da	te/Time:	8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
			Matrix:	GW	GW	GW	GW
						•	
Analytical Method	Amelista	Project Screening Level (a)	T1:4				
Method	Analyte	Level (a)	Units				
00014	Pesticides/PCBs	0.14	л	0.021 III	0.021 III	0.021 111	0.02.11
8081A 8081A	4,4'-DDD 4,4'-DDE	0.14	μg/L	0.021 UJ 0.021 UJ	0.021 UJ 0.021 UJ	0.021 UJ 0.021 UJ	0.02 U 0.02 U
8081A	4,4'-DDT	0.1	μg/L μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Aldrin	0.0043	μg/L μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	alpha-BHC	0.019	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	alpha-Chlordane	0.027	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	beta-BHC	0.019	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	delta-BHC	0.019	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Dieldrin	0.0022	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endosulfan I	NA	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endosulfan II	42	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endosulfan sulfate	NA	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endrin	2	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endrin aldehyde	2	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endrin ketone	2	μg/L	0.053 UJ	0.053 UJ	0.053 UJ	0.051 U
8081A	gamma-BHC	0.2	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	gamma-Chlordane	0.027	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Heptachlor	0.008	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Heptachlor epoxide	0.004	μg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Methoxychlor	35	μg/L	0.053 UJ	0.053 UJ	0.053 UJ	0.051 U
8081A	Toxaphene	0.031	μg/L	0.27 U	0.27 U	0.26 U	0.26 U
8082	Aroclor 1016	0.5	μg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082 8082	Aroclor 1221	0.5	μg/L	0.53 U	0.53 U	0.53 U	0.51 U
	Aroclor 1232	0.5	μg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082 8082	Aroclor 1242 Aroclor 1248	0.5	μg/L	0.53 U 0.53 U	0.53 U 0.53 U	0.53 U 0.53 U	0.51 U 0.51 U
8082	Aroclor 1248 Aroclor 1254	0.5	μg/L	0.53 U	0.53 U	0.53 U 0.53 U	0.51 U
8082	Aroclor 1260	0.5	μg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1260 Aroclor 1262	0.5	μg/L μg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1268	0.5	μg/L μg/L	0.53 U	0.53 U	0.53 U	0.51 U
	•						
	Herbicides						
8151A	2,4,5-T	360	μg/L	0.21 U	0.22 U	0.25 U	0.22 U
8151A	2,4,5-TP (Silvex)	50	μg/L	0.16 U	0.16 U	0.19 U	0.16 U
8151A	Pentachlorophenol	0.3	μg/L	0.16 U	0.16 U	0.19 U	0.16 U
8330	Explosives/Nitroglycerin 1,3,5-Trinitrobenzene	1,100	Л	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	1,3-Dinitrobenzene	3.6	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	2,4,6-Trinitrotoluene	2.2	μg/L μg/L	0.21 UJ	0.22 UJ 0.22 UJ	0.22 UJ 0.22 UJ	1.2 U
8330	2,4-Dinitrotoluene	73	μg/L μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	2,6-Dinitrotoluene	36	μg/L μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
3330	2-Nitrotoluene	61	μg/L μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	3-Nitrotoluene	61	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	4-Nitrotoluene	61	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	0.60 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	Nitrobenzene	3.4	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
3330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	μg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
3332	Nitroglycerine	4.8	μg/L	2.1 UJ	2.2 UJ	2.2 UJ	1.2 U
	Postly of the						
2221M	Perchlorate  Perchlorate	2.6	пс/т	0.070 I	0.050 U	0.050 U	0.050 U
8321M	Perchlorate	3.6	μg/L	0.079 J	0.030 U	0.050 U	U.U3U U

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTLEMOUNTAIN	RW0804-4535- UZZLERD
		Sample Da	te/Time:	8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
			Matrix:	GW	GW	GW	GW
Analytical		Project Screening					
Method	Analyte	Level (a)	Units				
	Total Metals						
6010B	Aluminum, Total	36,000	μg/L	200 U	200 U	200 U	10,000
6010B	Antimony, Total	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L	39.6 J	18.1 J	50.8 J	85.4 J
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U	0.35 J
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U	0.63 UJ
6010B	Calcium, Total	NA 50	μg/L	25,000	36,600	72,200	16,200
6010B	Chromium, Total	50 730	μg/L	10 U	10 U	10 U 50 U	5.4 J
6010B	Cobalt, Total	1,000	μg/L	50 U 25 U	50 U 11.4 J		5.3 J 51.8
6010B 6010B	Copper, Total Iron, Total	300	μg/L μg/L	619	11.4 J 100 U	25 U 97.7 UJ	51.8 5,490
6010B	Lead, Total	15	μg/L μg/L	3 U	3 U	3 U	39.9
6010B	Magnesium, Total	NA	μg/L μg/L	3,720 J	3,780 J	8,000	3,050 J
6010B	Manganese, Total	50	μg/L	366	372	177	406
7470A	Mercury, Total	1.1	μg/L	0.2 U	0.2 U	0.2 U	0.17 J
6010B	Nickel, Total	100	μg/L	40 U	40 U	40 U	6 J
6010B	Potassium, Total	NA	ug/L	5,000 U	5,000 U	1,200 J	563 J
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U	6.3
6010B	Silver, Total	18	μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	μg/L	12,200	10,500	15,000	11,800
6020	Thallium, Total	2	μg/L	1 U	1.1 U	1 U	0.68 UJ
6010B	Vanadium, Total	260	μg/L	50 U	50 U	50 U	15.3 J
6010B	Zinc, Total	2,100	μg/L	270	1,010	16.2 J	60.3
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
	Dissolved Metals						
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	μg/L	37.1 J	19.1 J	51.3 J	26.7 J
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	4 U	4 U	4 U
6010B 6010B	Calcium, Dissolved Chromium, Dissolved	NA 50	μg/L	23,900 10 U	38,100 10 U	71,500 10 U	16,600 10 U
6010B	Cobalt, Dissolved	730	μg/L	50 U	50 U	50 U	2.3 J
6010B	Copper, Dissolved	1.000	μg/L μg/L	25 U	25 U	25 U	3.7 J
6010B	Iron, Dissolved	300	μg/L μg/L	100 U	100 U	100 U	208
6010B	Lead, Dissolved	15	μg/L μg/L	3 U	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	μg/L μg/L	3,560 J	3.920 J	7.980	2.700 J
6010B	Manganese, Dissolved	50	μg/L	346	386	176	391
7470A	Mercury, Dissolved	1.1	μg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	μg/L	40 U	40 U	2.8 UJ	3 J
6010B	Potassium, Dissolved	NA	ug/L	5,000 U	5,000 U	1,200 J	5,000 U
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	μg/L	11,700	10,900	14,900	9,830
6020	Thallium, Dissolved	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	μg/L	50 U	50 U	50 U	50 U
6010B μg/L - microc	Zinc, Dissolved	2,100	μg/L	226	1,040	22.3	13.7 J

μg/L - micrograms/Liter AQ - Aqueous. GW - Groundwater.

J - Estimated value.

J - Estimated value.
NA - Not available.
U - Not detected below reported detection limit.
UJ - Not detected below reported detection limit. Detection limit is an estimated value.
Bolded result exceeds project screening level.
(a) As determined by the USACE and NCDENR in the Field Sampling Plan.
(b) Duplicate of sample RW0804-653-LakeviewDr.
(c) Duplicate of sample RW0804-4578-UzzleRd.
(d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 5: ANALYTICAL RESULTS** 

Ambrical   Method   Analyte   Project Screening   Level (a)   Units   SW   GW   GW   GW			Sa	mple ID:	RW0804-191- FALCONLANE	RW0804-4553- UZZLERD	RW0804-4573- UZZLERD
Nambytical   Method   Analyte   Project Screening   Level (a)			Sample Da	ite/Time:			8/11/2004 12:45:00 PM
Nethod   Namby   Sevent   No.   No		I		Matrix:	GW	GW	GW
Valuatic Organic Compounds (VOCs)   90		Analyte		Unita			
S206B   1,1,1-frichtorochame   200   pgL   1 U		· · · · · · · · · · · · · · · · · · ·	Level (a)	Units			
1.1.2.2-Tetrachorochane			200	ца/І	1 11	1 11	1 U
S260B							1 U
Second   1.1-Dichloroscheme	8260B		5		1 U	1 U	1 U
SEGOB   12.3-Trichtorobenzene							1 U
2820B							1 U
S260B   1.2-Dibronochane   0.025   μg/L   2 U							5 U
S260B							
S260B							2 U
S260B							1 U
S260B					1 U	1 U	1 U
S260B   1.4-Dichlorobenzene   75   pg/L   1 U		1,2-Dichloropropane		μg/L			1 U
S260B   2-Butanone							1 U
S260B							1 U
S260B							10 U
S260B							5 U
Reference   1							10 U
S260B   Bromochloromethane   S.56   µg/L   1 U							1 U
S260B   Bromoferm   Bromomethane   B.7   μg/L   2 U	8260B	Bromochloromethane	NA		5 U	5 U	5 U
Second   Bromomethane   Second   Sec							1 U
S260B							4 U
S260B							2 U
S260B   Chlorobenzene   50   μg/L   1 U							
Second   Chloroethane   Chloroform   Chloroform   Chloroform   Chloroform   Chloroform   Chloroform   Chloromethane   Chlor							
Second   Chloroform   Chloroform   Chloroform   Chloroform   Chloromethane							1 U
S260B   Chloromethane   2.6   µg/L   1 U							1 U
Secons   Cyclohexane   Secons   Seco	8260B	Chloromethane	2.6		1 U	1 U	1 U
Secons   Cyclohexane   35,000   μg/L   5 U							1 U
Secons   Dibromochloromethane   0.41   μg/L   1 U							1 U
Secobreak   Sec							5 U
Second   Ethylbenzene   29							
Secob   Freon 113   210,000   μg/L   5 U   5							1 U
8260B         Isopropylbenzene         70         μg/L         2 U         2 U         2 U           8260B         M,P-Xylene         530         μg/L         1 U         1 U         1 U           8260B         Methyl Acetate         6,100         μg/L         5 U         5 U         5 U           8260B         Methyl tert-butyl ether         200         μg/L         1 U         1 U         1 U           8260B         Methyleyclohexane         NA         μg/L         5 U         5 U         5 U           8260B         Methylene chloride         5         μg/L         1 U<			_				5 U
Secons   M.PXylene   Sign							2 U
8260B         Methyl tert-butyl ether         200         μg/L         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         5 U<	8260B	M,P-Xylene	530		1 U	1 U	1 U
8260B         Methylcyclohexane         NA         μg/L         5 U         5 U         5 I           8260B         Methylene chloride         5         μg/L         2 U         2 U         2 U         2 I           8260B         O-Xylene         530         μg/L         1 U							5 U
Second   Methylene chloride   S   μg/L   2 U		, ,					1 U
S260B   O-Xylene   S30   µg/L   1 U   1							5 U
8260B         Styrene         100         μg/L         5 U         5 U         5 U           8260B         Tetrachloroethene         0.7         μg/L         1 U </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 U</td>							1 U
8260B         Tetrachloroethene         0.7         μg/L         1 U         2 U         2 U         2 U         2 U							5 U
S260B   Toluene   1,000   μg/L   1 U		· ·					1 U
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	8260B	Toluene		μg/L	1 U		1 U
8260B         Trichloroethene         2.8         μg/L         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         5 U							1 U
8260B         Trichlorofluoromethane         2,100         μg/L         5 U         5 U         5 U           8260B         Vinyl chloride         0.015         μg/L         1 U         2 U							1 U
8260B         Vinyl chloride         0.015         μg/L         1 U         1 U         1 U           Semi-volatile Organic Compounds (SVOCs)           8270C         1,2,4,5-Tetrachlorobenzene         11         μg/L         5.3 U         5.1 U         5.2           8270C         1,4-Dioxane         7         μg/L         2.1 UJ         2 U         2.1           8270C         2,3,4,6-Tetrachlorophenol         210         μg/L         5.3 U         5.1 U         5.2           8270C         2,4,5-Trichlorophenol         3,600         μg/L         5.3 U         5.1 U         5.2           8270C         2,4,6-Trichlorophenol         3.6         μg/L         5.3 U         5.1 U         5.2           8270C         2,4-Dichlorophenol         110         μg/L         5.3 U         5.1 U         5.2							1 U
Semi-volatile Organic Compounds (SVOCs)           8270C         1,2,4,5-Tetrachlorobenzene         11         μg/L         5.3 U         5.1 U         5.2           8270C         1,4-Dioxane         7         μg/L         2.1 UJ         2 U         2.1           8270C         2,3,4,6-Tetrachlorophenol         210         μg/L         5.3 U         5.1 U         5.2           8270C         2,4,5-Trichlorophenol         3,600         μg/L         5.3 U         5.1 U         5.2           8270C         2,4-6-Trichlorophenol         3.6         μg/L         5.3 U         5.1 U         5.2           8270C         2,4-Dichlorophenol         110         μg/L         5.3 U         5.1 U         5.2							1 U
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			0.013	μg/L			10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			11	цу/Г.	5.3 II	5.1 U	5.2 U
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							2.1 U
8270C       2,4,5-Trichlorophenol       3,600       μg/L       5.3 U       5.1 U       5.2         8270C       2,4,6-Trichlorophenol       3.6       μg/L       5.3 U       5.1 U       5.2         8270C       2,4-Dichlorophenol       110       μg/L       5.3 U       5.1 U       5.2         8270C       2,4-Dichlorophenol       110       μg/L       5.3 U       5.1 U       5.2							5.2 U
8270C 2,4-Dichlorophenol 110 μg/L 5.3 U 5.1 U 5.2	8270C	2,4,5-Trichlorophenol	3,600		5.3 U	5.1 U	5.2 U
							5.2 U
82/0C   2,4-Dimethylphenol   140   ug/L   5.3 U   5.1 U   5.2							5.2 U
7 11							5.2 U 21 U
		· I					2.1 U
							2.1 U

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-191- FALCONLANE	RW0804-4553- UZZLERD	RW0804-4573- UZZLERD
		Sample Da	nte/Time:	8/10/2004 3:30:00 PM	8/11/2004 11:25:00 AM	8/11/2004 12:45:00 PM
		T	Matrix:	GW	GW	GW
Analytical		Project Screening				
Method	Analyte	Level (a)	Units			
	SVOCs (cont.)					
8270C	2-Chloronaphthalene	490	μg/L	5.3 U	5.1 U	5.2 U
8270C	2-Chlorophenol	0.1	μg/L	5.3 U	5.1 U	5.2 U
8270C	2-Methyl-4,6-dinitrophenol	NA	μg/L	21 U	20 U	21 U
8270C	2-Methylnaphthalene	14	μg/L	2.1 U	2 U	2.1 U
8270C	2-Methylphenol	1,800	μg/L	5.3 U	5.1 U	5.2 U
8270C 8270C	2-Nitroaniline	1 NA	μg/L	<b>5.3 U</b> 5.3 U	<b>5.1 U</b> 5.1 U	5.2 U 5.2 U
8270C 8270C	2-Nitrophenol 3,3'-Dichlorobenzidine	0.15	μg/L μg/L	5.3 U	5.1 U	5.2 U
8270C 8270C	3-Nitroaniline	NA NA	μg/L μg/L	5.3 U	5.1 U	5.2 U
8270C 8270C	4-Bromophenyl phenyl ether	NA NA	μg/L μg/L	2.1 U	2 U	2.1 U
8270C 8270C	4-Chloro-3-methylphenol	NA NA	μg/L μg/L	5.3 U	5.1 U	5.2 U
8270C	4-Chloroaniline	150	μg/L	5.3 U	5.1 U	5.2 U
8270C	4-Chlorophenyl phenyl ether	NA NA	μg/L	2.1 U	2 U	2.1 U
8270C	4-Nitroaniline	NA	μg/L	5.3 U	5.1 U	5.2 U
8270C	4-Nitrophenol	NA	μg/L	21 U	20 U	21 U
8270C	Acenaphthene	80	μg/L	2.1 U	2 U	2.1 U
8270C	Acenaphthylene	210	μg/L	2.1 U	2 U	2.1 U
8270C	Acetophenone	NA	μg/L	5.3 U	5.1 U	5.2 U
8270C	Anthracene	2,100	μg/L	2.1 U	2 U	2.1 U
8270C	Atrazine	3	μg/L	5.3 U	5.1 U	5.2 U
8270C	Benzaldehyde	3,600	μg/L	5.3 U	5.1 U	5.2 U
8270C	Benzo(a)anthracene	0.0479	μg/L	2.1 U	2 U	2.1 U
8270C	Benzo(a)pyrene	0.00479	μg/L	2.1 U	2 U	2.1 U
8270C	Benzo(b)fluoranthene	0.0479	μg/L	2.1 U	2 U	2.1 U
8270C	Benzo(g,h,i)perylene	210	μg/L	2.1 U	2 U	2.1 U
8270C	Benzo(k)fluoranthene	0.479	μg/L	2.1 U	2 U	2.1 U
8270C 8270C	Biphenyl bis(2-Chloroethoxy)methane	300 NA	μg/L	2.1 U 2.1 U	2 U 2 U	2.1 U 2.1 U
8270C 8270C	Bis(2-chloroethyl) ether	0.031	μg/L μg/L	2.1 U	2 U	2.1 U
8270C 8270C	Bis(2-chloroisopropyl) ether	0.031	μg/L μg/L	2.1 U	2 U	2.1 U
8270C	Bis(2-ethylhexyl) phthalate	3	μg/L μg/L	2.1 U	2 U	2.1 U
8270C	Butylbenzyl phthalate	100	μg/L	2.1 U	2 U	2.1 U
8270C	Caprolactam	3,500	μg/L	2.1 U	2 U	2.1 U
8270C	Carbazole	3.4	μg/L	2.1 U	2 U	2.1 U
8270C	Chrysene	4.79	μg/L	2.1 U	2 U	2.1 U
8270C	Dibenz(a,h)anthracene	0.0047	μg/L	2.1 U	2 U	2.1 U
8270C	Dibenzofuran	28	μg/L	5.3 U	5.1 U	5.2 U
8270C	Diethyl phthalate	5,000	μg/L	2.1 U	2 U	2.1 U
8270C	Dimethyl phthalate	360,000	μg/L	2.1 U	2 U	2.1 U
8270C	Di-n-butyl phthalate	700	μg/L	2.1 U	2 U	2.1 U
8270C	Di-n-octyl phthalate	140	μg/L	2.1 U	2 U	2.1 U
8270C	Fluoranthene	280	μg/L	2.1 U	2 U	2.1 U
8270C	Fluorene	280	μg/L	2.1 U	2 U	2.1 U
8270C	Hexachlorobenzene	0.02	μg/L	2.1 U	2 U	2.1 U
8270C	Hexachlorobutadiene	0.44	μg/L	2.1 U	2 U	2.1 U
8270C	Hexachlorocyclopentadiene	50	μg/L	21 U	20 U	21 U
8270C 8270C	Hexachloroethane Indeno(1,2,3-cd)pyrene	4.8 0.0479	μg/L μg/L	5.3 U 2.1 U	5.1 U 2 U	5.2 U 2.1 U
8270C 8270C	Isophorone	36.8	μg/L μg/L	2.1 U 2.1 U	2 U	2.1 U 2.1 U
8270C 8270C	Naphthalene	21	μg/L μg/L	2.1 U	2 U	2.1 U
8270C 8270C	Nitrobenzene	3.4	μg/L μg/L	2.1 U	2 U	2.1 U
8270C	N-Nitroso-di-n-propylamine	0.0096	μg/L μg/L	2.1 U	2 U	2.1 U
8270C	N-Nitrosodiphenylamine	14	μg/L μg/L	5.3 U	5.1 U	5.2 U
8270C	Phenanthrene	210	μg/L	2.1 U	2 U	2.1 U
8270C	Phenol	300	μg/L	5.3 U	5.1 U	5.2 U
8270C	Pyrene	210	μg/L	2.1 U	2 U	2.1 U

**Table 5: ANALYTICAL RESULTS** 

Sample Date   Times   Sample Date   Times   Sample Date   Times   Sample Date   Times   Sample Date   Sample Dat			Sar	mple ID:	RW0804-191- FALCONLANE	RW0804-4553- UZZLERD	RW0804-4573- UZZLERD
National							
Analytical   Project Screening   Level (a)   Units			Sample Da	te/Time:			
Analyteal   Project Screening   Level (a)				Matrix:			
Method   Manalyte   Level (a)   Units					011	311	311
Perticides/PCHs	Analytical		Project Screening				
SSS   A   44-DDD   0.14   yg   L   0.022   U   0.02	Method	Analyte		Units			
SSS   A   44-DDD   0.14   yg   L   0.022   U   0.02		Pesticides/PCBs					
SORIA   A4-DDE   0.2   mg/L   0.022 UJ   0.02 U   0.02	8081A		0.14	μg/L	0.022 UJ	0.02 U	0.02 U
SOBIA   Aldrin   O.0043   Hg/L   O.022 U   O.022 U   O.022 U   O.022 U   O.022 U   O.022 U   O.023 U   O.024 U   O.025 U   O	8081A	4,4'-DDE	0.2		0.022 UJ	0.02 U	0.02 U
SOBIA   alpha-BHC   O.019   mg/L   O.022 U   O.02 U   O	8081A	4,4'-DDT	0.1	μg/L	0.022 UJ	0.02 U	0.02 U
SOSIA   alpha-Chlordane   0.027   gg/L   0.022 U   0.02 U   0.02 U   0.02 U   SOSIA   beal-BHC   0.019   gg/L   0.022 U   0.02 U   0.02 U   0.02 U   SOSIA   beal-BHC   0.019   gg/L   0.022 U   0.02 U   0.02 U   0.02 U   SOSIA   beal-BHC   0.002   gg/L   0.022 U   0.02 U   0.02 U   0.02 U   SOSIA   Endosulfan I   NA   μg/L   0.022 U   0.02 U   0.02 U   0.02 U   SOSIA   Endosulfan II   42   μg/L   0.022 U   0.02	8081A			μg/L			
SORIA   Sein-BHC   0.019   pg.L   0.022 UJ   0.02 U   0							
SORIA   Deldrin   O.019   Fig.   O.022 UJ   O.022 UJ		alpha-Chlordane		μg/L	0.022 UJ		
SORIA   Dieldrin   NA   pg/L   0.022 UJ   0.02 U   0.02							
SORIA   Endosulfan   NA   pgL   0.022 UJ   0.02 U   0.0							
SORIA   Endosulfan sulfate							
SORIA   Endosulfan sulfate   NA   pg/L   0.022 UJ   0.02 U   0.0							
SORIA   Endrin   2   pg/L   0.022 UJ   0.02 U   0.02 U							
SOB   A   Endrin aldehyde							
SOR1A   Endrin ketone   2   pg/L   0.056 UJ   0.051 U   0.05 U							
S081A   gamma-BHC   0.2   μg/L   0.022 UJ   0.02 U   0							
S081A   gamma-Chlordane   0.027   pg/L   0.022 UJ   0.02 U   0.							
Reptachlor   0.008		6					
Rose   A   Reptachlor epoxide   0.004							
Methoxychlor   35							
No.							
Aroclor 1016   0.5   μg/L   0.56 U   0.51 U   0.5 U							
Aroclor 1221   0.5   μg/L   0.56 U   0.51 U   0.5 U							
Arcelor 1232   0.5   μg/L   0.56 U   0.51 U   0.5 U							
Aroclor 1242   0.5   μg/L   0.56 U   0.51 U   0.5 U	8082						
Aroclor 1248   0.5   μg/L   0.56 U   0.51 U   0.5 U	8082	Aroclor 1242	0.5		0.56 U	0.51 U	0.5 U
Aroclor 1254   0.5   μg/L   0.56 U   0.51 U   0.5 U	8082	Aroclor 1248	0.5		0.56 U	0.51 U	0.5 U
Aroclor 1262   Aroclor 1268   Aro	8082	Aroclor 1254	0.5	μg/L	0.56 U	0.51 U	0.5 U
Herbicides	8082	Aroclor 1260	0.5	μg/L	0.56 U	0.51 U	0.5 U
Herbicides   360	8082	Aroclor 1262	0.5	μg/L	0.56 U	0.51 U	0.5 U
Section   Sec	8082	Aroclor 1268	0.5	μg/L	0.56 U	0.51 U	0.5 U
Section   Sec							
Section   Sect	01514		250	Œ	0.24.77	0.24.77	0.21.11
Retachlorophenol   0.3   μg/L   0.18 U   0.18 U   0.16 U							
Explosives/Nitroglycerin   R330   1,3,5-Trinitrobenzene   1,100   μg/L   0.22 UJ   1.1 U   1.1 U   1.1 U   1.3 U							
1,3,5-Trinitrobenzene   1,100   μg/L   0.22 UJ   1.1 U   1.1 U   1.1 U   1.3 U   1.3 U   1.3 U   1.3 U   1.3 U   1.3 U   1.1 U   1.1 U   1.1 U   1.3 U   1.3 U   1.3 U   1.3 U   1.3 U   1.1 U   1.1 U   1.1 U   1.3 U   1.3 U   1.3 U   1.3 U   1.3 U   1.1 U   1.1 U   1.1 U   1.3 U   1.	8151A		0.3	μg/L	0.18 U	0.18 U	0.16 U
1,3-Dinitrobenzene   3.6    μg/L   0.22 UJ   1.1 U   1.1 U   1.1 U   1.1 U   1.1 U   1.3 U   1.1 U	8330		1 100	па/І	0.22 111	1 1 11	1111
Result		7- 7-	,				
Result							
Result							
Result							
Sample	8330	7					
Second	8330						
Hexahydro-1,3,5-trinitro-1,3,5-triazine   0.61   μg/L   0.22 UJ   0.55 U   0.55 U	8330						
Methyl-2,4,6-trinitrophenylnitramine   360   μg/L   0.22 UJ   1.1 U   1.1 U   1.1 U   1.8330   Nitrobenzene   3.4   μg/L   0.22 UJ   1.1 U	8330						
8330   Nitrobenzene   3.4   μg/L   0.22 UJ   1.1 U   1.1 U	8330						
Nitroglycerine   1,800   μg/L   0.22 UJ   1.1 U   1.1 U	8330		3.4		0.22 UJ	1.1 U	1.1 U
Nitroglycerine   4.8   μg/L   2.2 UJ   1.1 U   1.1 U	8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800		0.22 UJ	1.1 U	1.1 U
	8332	Nitroglycerine	4.8		2.2 UJ	1.1 U	1.1 U
8321M   Perchlorate   3.6   μg/L   0.050 U   0.050 U   0.100 J							
	8321M	Perchlorate	3.6	μg/L	0.050 U	0.050 U	0.100 J

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-191- FALCONLANE	RW0804-4553- UZZLERD	RW0804-4573- UZZLERD
		Sample Da	ate/Time:	8/10/2004 3:30:00 PM	8/11/2004 11:25:00 AM	8/11/2004 12:45:00 PM
			Matrix:	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
	Total Metals					
6010B	Aluminum, Total	36,000	μg/L	200 U	200 U	200 U
6010B	Antimony, Total	6	μg/L	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L	42.9 J	142 J	200 U
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U
6010B	Calcium, Total	NA	μg/L	69,900	45,000	11,600
6010B	Chromium, Total	50	μg/L	10 U	10 U	10 U
6010B	Cobalt, Total	730	μg/L	50 U	50 U	50 U
6010B	Copper, Total	1,000	μg/L	20.1 J	4.8 J	27.5
6010B	Iron, Total	300	μg/L	141 3 U	100 U 3 U	1,140
6010B 6010B	Lead, Total	NA NA	μg/L	6,680	4,400 J	3.6 U 2,310 J
6010B	Magnesium, Total	50	μg/L	6,680 <b>289</b>	4,400 J <b>195</b>	2,310 J 46.6
7470A	Manganese, Total Mercury, Total	1.1	μg/L μg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	μg/L μg/L	40 U	40 U	40 U
6010B	Potassium, Total	NA	ug/L	2,430 J	2,030 J	986 J
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U
6010B	Silver, Total	18	μg/L μg/L	10 U	10 U	10 U
6010B	Sodium, Total	NA NA	μg/L	11,700	8,310	5,760
6020	Thallium, Total	2	μg/L	0.84 UJ	1 U	1 U
6010B	Vanadium, Total	260	μg/L	50 U	50 U	50 U
6010B	Zinc, Total	2,100	μg/L	26.3	108	26.4
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U
	Dissolved Metals					
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	μg/L	44 J	141 J	200 U
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	0.5 UJ	4 U
6010B	Calcium, Dissolved	NA	μg/L	72,000	44,200	11,600
6010B	Chromium, Dissolved	50	μg/L	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	μg/L	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	μg/L	25 U	3.5 J	17.5 J
6010B	Iron, Dissolved	300	μg/L	100 U	100 U	534
6010B	Lead, Dissolved	15	μg/L	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	μg/L	6,840	4,350 J	2,290 J
6010B	Manganese, Dissolved	50	μg/L	291	190	43.9
7470A	Mercury, Dissolved	1.1	μg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	μg/L	3.3 J	40 U	2.4 J
6010B	Potassium, Dissolved	NA 50	ug/L	2,540 J	2,070 J	1,040 J
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA 2	μg/L	11,700	8,590	5,710
6020 6010B	Thallium, Dissolved	260	μg/L	0.8 UJ	1 U	1 U 50 U
6010B	Vanadium, Dissolved Zinc, Dissolved	2,100	μg/L	50 U 16.7 J	50 U 107	27.8
µg/L - microg		∠,100	μg/L	10./ J	10/	41.8

J - Estimated value.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
		Sample Da	te/Time:	8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
			Matrix:	GW	GW	GW	GW
Analytical		Project Screening					
Method	Analyte	Level (a)	Units				
8260B	atile Organic Compounds (VOCs) 1,1,1-Trichloroethane	200	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	μg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	μg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene	NA 70	μg/L	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	μg/L μg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	μg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	μg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	μg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	1,4-Dichlorobenzene 2-Butanone	75 170	μg/L μg/L	1 U 10 U	1 U 10 U	1 U 10 U	1 U 10 U
8260B 8260B	2-Butanone 2-Hexanone	280	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	μg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	μg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	μg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Bromoform Bromomethane	0.19 8.7	μg/L μg/L	4 U 2 U	4 U 2 U	4 U 2 U	4 U 2 U
8260B	Carbon disulfide	700	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	μg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	μg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	μg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Chloromethane	2.6	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	cis-1,2-Dichloroethene cis-1,3-Dichloropropene	0.19	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	μg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	μg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	μg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	Isopropylbenzene M,P-Xylene	70 530	μg/L μg/L	2 U 1 U	2 U 1 U	2 U 1 U	2 U 1 U
8260B	Methyl Acetate	6,100	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	μg/L	1 U	1 U	71.1	1 U
8260B	Methylcyclohexane	NA	μg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	μg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Styrene Tetrachloroethene	100 0.7	μg/L μg/L	5 U 1 U	5 U 1 U	5 U 1 U	5 U 1 U
8260B	Toluene	1,000	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	μg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	μg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	μg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	μg/L	1 U	1 U	1 U	1 U
	volatile Organic Compounds (SVOCs)		~	5.11	F 1 11	5011	5.2.11
8270C 8270C	1,2,4,5-Tetrachlorobenzene 1,4-Dioxane	11 7	μg/L	5 U 2 U	5.1 U 2 U	5.2 U 2.1 U	5.3 U 2.1 U
8270C 8270C	2,3,4,6-Tetrachlorophenol	210	μg/L μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C 8270C	2,4,5-Trichlorophenol	3,600	μg/L μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4,6-Trichlorophenol	3.6	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4-Dichlorophenol	110	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4-Dimethylphenol	140	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4-Dinitrophenol	73	μg/L	20 U	20 U	21 U	21 U
8270C 8270C	2,4-Dinitrotoluene 2,6-Dinitrotoluene	73 36	μg/L	2 U 2 U	2 U 2 U	2.1 U 2.1 U	2.1 U 2.1 U
0210C	2,0-Dillitiotolucile	30	μg/L	4 U		4.1 U	2.1 U

**Table 5: ANALYTICAL RESULTS** 

		San	nple ID:	RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
		Sample Dat	te/Time:	8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
02700	SVOCs (cont.)	400	σ.	5.11	5 1 77	5.0.44	5.2.11
8270C 8270C	2-Chloronaphthalene 2-Chlorophenol	490	μg/L	5 U 5 U	5.1 U 5.1 U	5.2 U 5.2 U	5.3 U 5.3 U
8270C 8270C	2-Methyl-4,6-dinitrophenol	NA	μg/L μg/L	20 U	20 U	21 U	21 U
8270C	2-Methylnaphthalene	14	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	2-Methylphenol	1,800	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2-Nitroaniline	1	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2-Nitrophenol	NA	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	3,3'-Dichlorobenzidine	0.15	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	3-Nitroaniline	NA NA	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C 8270C	4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	NA NA	μg/L μg/L	2 U 5 U	2 U 5.1 U	2.1 U 5.2 U	2.1 U 5.3 U
8270C 8270C	4-Chloroaniline	150	μg/L μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	4-Chlorophenyl phenyl ether	NA NA	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	4-Nitroaniline	NA	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	4-Nitrophenol	NA	μg/L	20 U	20 U	21 U	21 U
8270C	Acenaphthene	80	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Acenaphthylene	210	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Acetophenone	NA	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Anthracene	2,100	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Atrazine	3	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C 8270C	Benzaldehyde Benzo(a)anthracene	3,600 0.0479	μg/L	5 U 2 U	5.1 U 2 U	5.2 U 2.1 U	5.3 U 2.1 U
8270C 8270C	Benzo(a)pyrene	0.00479	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(b)fluoranthene	0.0479	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(g,h,i)perylene	210	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(k)fluoranthene	0.479	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Biphenyl	300	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	bis(2-Chloroethoxy)methane	NA	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Bis(2-chloroethyl) ether	0.031	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Bis(2-chloroisopropyl) ether	0.27	μg/L	2 U	2 U	2.1 U	2.1 U
8270C 8270C	Bis(2-ethylhexyl) phthalate	3 100	μg/L	2 U 2 U	2 U 2 U	2.1 U 2.1 U	2.1 U 2.1 U
8270C 8270C	Butylbenzyl phthalate Caprolactam	3,500	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Carbazole	3.4	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Chrysene	4.79	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Dibenz(a,h)anthracene	0.0047	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Dibenzofuran	28	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Diethyl phthalate	5,000	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Dimethyl phthalate	360,000	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Di-n-butyl phthalate	700	μg/L	2 U	2 U	2.1 U	2.1 U
8270C 8270C	Di-n-octyl phthalate Fluoranthene	140 280	μg/L	2 U	2 U 2 U	2.1 U 2.1 U	2.1 U
8270C 8270C	Fluorantnene	280	μg/L μg/L	2 U 2 U	2 U	2.1 U	2.1 U 2.1 U
8270C 8270C	Hexachlorobenzene	0.02	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Hexachlorobutadiene	0.44	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Hexachlorocyclopentadiene	50	μg/L	20 U	20 U	21 U	21 U
8270C	Hexachloroethane	4.8	μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Isophorone	36.8	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Naphthalene	21	μg/L	2 U	2 U	2.1 U	2.1 U
8270C	Nitrobenzene	3.4	μg/L	2 U	2 U	2.1 U	2.1 U
8270C 8270C	N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	0.0096	μg/L μg/L	2 U 5 U	2 U 5.1 U	<b>2.1 U</b> 5.2 U	<b>2.1 U</b> 5.3 U
8270C 8270C	Phenanthrene	210	μg/L μg/L	2 U	2 U	2.1 U	2.1 U
8270C 8270C	Phenol	300	μg/L μg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Pyrene	210	μg/L μg/L	2 U	2 U	2.1 U	2.1 U

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
		Sample Da	te/Time:	8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
	Pesticides/PCBs						
8081A	4,4'-DDD	0.14	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	4,4'-DDE	0.2	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	4,4'-DDT	0.1	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Aldrin	0.0043	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A 8081A	alpha-BHC	0.019 0.027	μg/L	0.021 U 0.021 U	0.021 U 0.021 U	0.022 U 0.022 U	0.022 U 0.022 U
8081A 8081A	alpha-Chlordane beta-BHC	0.027	μg/L μg/L	0.021 U 0.021 U	0.021 U 0.021 U	0.022 U	0.022 U 0.022 U
8081A	delta-BHC	0.019	μg/L μg/L	0.021 U 0.021 U	0.021 U	0.022 U 0.022 U	0.022 U
8081A	Dieldrin	0.0022	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endosulfan I	NA	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endosulfan II	42	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endosulfan sulfate	NA	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endrin	2	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endrin aldehyde	2	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endrin ketone	2	μg/L	0.052 U	0.052 U	0.054 U	0.056 U
8081A	gamma-BHC	0.2	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	gamma-Chlordane	0.027	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Heptachlor	0.008	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Heptachlor epoxide	0.004	μg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Methoxychlor	35	μg/L	0.052 U	0.052 U	0.054 U	0.056 U
8081A	Toxaphene	0.031	μg/L	0.26 U	0.26 U 0.52 U	0.27 U	0.28 U
8082 8082	Aroclor 1016 Aroclor 1221	0.5	μg/L	0.52 U 0.52 U	0.52 U 0.52 U	0.54 U 0.54 U	0.56 U 0.56 U
8082	Aroclor 1221 Aroclor 1232	0.5	μg/L μg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1242	0.5	μg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1248	0.5	μg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1254	0.5	μg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1260	0.5	μg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1262	0.5	μg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1268	0.5	μg/L	0.52 U	0.52 U	0.54 U	0.56 U
	Herbicides						
8151A	2,4,5-T	360	μg/L	0.22 U	0.22 U	0.22 U	0.22 U
8151A	2,4,5-TP (Silvex)	50	μg/L μg/L	0.22 U	0.16 U	0.22 U 0.17 U	0.22 U
8151A	Pentachlorophenol	0.3	μg/L	0.17 U	0.16 U	0.17 U	0.17 U
	Explosives/Nitroglycerin		1.0				
8330	1,3,5-Trinitrobenzene	1,100	μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	1,3-Dinitrobenzene	3.6	μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2,4,6-Trinitrotoluene	2.2	μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2,4-Dinitrotoluene	73	μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2,6-Dinitrotoluene	36	μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2-Nitrotoluene	61	μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330 8330	3-Nitrotoluene 4-Nitrotoluene	61	μg/L	1.0 U 1.0 U	1.1 U 1.1 U	1.1 U 1.1 U	1.2 U 1.2 U
8330	4-Nitrotoluene Hexahydro-1,3,5-trinitro-1,3,5-triazine	61 0.61	μg/L μg/L	0.50 U	0.55 U	0.55 U	0.60 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	μg/L μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	Nitrobenzene	3.4	μg/L μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	μg/L μg/L	1.0 U	1.1 U	1.1 U	1.2 U
8332	Nitroglycerine	4.8	μg/L μg/L	1.0 U	1.1 U	1.1 U	1.2 U
1							
	Perchlorate						
8321M	Perchlorate	3.6	μg/L	0.050 U	0.050 U	0.518	0.050 U

**Table 5: ANALYTICAL RESULTS** 

		Sa Sample Da	mple ID:	RW0804-4578- UZZLERD 8/11/2004	RW0804- FIELDDUP2 (c) 8/11/2004	RW0804-4710- MORIAHRD 8/12/2004	RW0804-4709- MORIAHRD 8/12/2004
		~	_	9:25:00 AM	9:25:00 AM	8:15:00 AM	9:25:00 AM
	<u></u>		Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
	Total Metals						
6010B	Aluminum, Total	36,000	μg/L	200 U	200 U	695	200 U
6010B	Antimony, Total	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L	15.7 J	15.4 J	17 J	5.7 UJ
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA 50	μg/L	8,270	8,120	65,200	170 J
6010B 6010B	Chromium, Total Cobalt, Total	50 730	μg/L	3.4 J 50 U	3.2 J 50 U	1.6 J 50 U	10 U 50 U
6010B		1,000	μg/L	20.1 J		50.4	11.8 J
6010B	Copper, Total Iron, Total	300	μg/L μg/L	20.1 J 100 U	14.1 J 100 U	3,290	162
6010B	Lead, Total	15	μg/L μg/L	3 U	3 U	5.9	3 U
6010B	Magnesium, Total	NA NA	μg/L μg/L	2,110 J	2,070 J	8,510	13.8 J
6010B	Manganese, Total	50	μg/L μg/L	12.6 J	12.2 J	310	2.7 J
7470A	Mercury, Total	1.1	μg/L μg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	μg/L μg/L	2.6 J	3.1 J	40 U	40 U
6010B	Potassium, Total	NA NA	ug/L	808 J	763 J	1,660 J	5,000 U
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	μg/L μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA NA	μg/L	4,490 J	4,450 J	17,700	87,100
6020	Thallium, Total	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Total	260	μg/L	50 U	50 U	2.4 J	50 U
6010B	Zinc, Total	2,100	μg/L	15.5 J	12.8 J	102	10 J
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
, , , , , ,	Dissolved Metals	0.120		***************************************	0.020	0.00	
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	μg/L μg/L	15.6 J	15.2 J	9.3 J	200 U
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	μg/L μg/L	8,120	8,120	59,900	234 J
6010B	Chromium, Dissolved	50	μg/L	3.4 J	3.3 J	10 U	10 U
6010B	Cobalt, Dissolved	730	μg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	μg/L	12.5 J	12.3 J	5.5 UJ	8.7 J
6010B	Iron, Dissolved	300	μg/L	100 U	100 U	100 U	100 U
6010B	Lead, Dissolved	15	μg/L	3 U	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	μg/L	2,070 J	2,060 J	7,750	16.7 J
6010B	Manganese, Dissolved	50	μg/L	11.5 J	11.3 J	11.5 J	15 U
7470A	Mercury, Dissolved	1.1	μg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	μg/L	2.7 J	40 U	40 U	40 U
6010B	Potassium, Dissolved	NA	ug/L	841 J	804 J	1,610 J	5,000 J
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	μg/L	4,340 J	4,430 J	17,900	90,200
6020	Thallium, Dissolved	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	μg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	μg/L	14.9 J	12.3 J	61.9	10.7 J

J - Estimated value.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-5057- CLAYTONRD	RW0804- HESTERFARM	RW0804-627B- ENONRD	RW0804-564- BETHANYCHURCH
		Sample Da	nte/Time:	8/12/2004 10:10:00 AM	8/11/2004 3:25:00 PM	8/11/2004 4:30:00 PM	8/12/2004 10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical	1.14	Project Screening	¥1.*4				
Method	Analyte atile Organic Compounds (VOCs)	Level (a)	Units				
8260B	1,1,1-Trichloroethane	200	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	μg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	μg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	μg/L	1 U 1 U	1 U 1 U	1 U	1 U
8260B 8260B	1,1-Dichloroethene 1,2,3-Trichlorobenzene	NA	μg/L μg/L	5 U	5 U	1 U 5 U	1 U 5 U
8260B	1,2,4-Trichlorobenzene	70	μg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	μg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	μg/L	2 U	2 U	2 U	2 U
8260B 8260B	1,2-Dichlorobenzene 1,2-Dichloroethane	600 0.38	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	1,2-Dichloropropane	0.56	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	μg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	μg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	μg/L	10 U	10 U	10 U	10 U
8260B 8260B	2-Hexanone 4-Methyl-2-Pentanone	280 160	μg/L μg/L	5 U	5 U 5 U	5 U 5 U	5 U 5 U
8260B	Acetone	700	μg/L μg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	μg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	μg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Bromoform Bromomethane	0.19 8.7	μg/L μg/L	4 U 2 U	4 U 2 U	4 U 2 U	4 U 2 U
8260B	Carbon disulfide	700	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	μg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	μg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Chloroform	0.19	μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	Chloromethane cis-1,2-Dichloroethene	70	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	μg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	μg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Dichlorodifluoromethane Ethylbenzene	1,400 29	μg/L	5 U 1 U	5 U 1 U	5 U 1 U	5 U 1 U
8260B	Freon 113	210,000	μg/L μg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	μg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	μg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	μg/L	5 U	5 U	5 U	5 U
8260B 8260B	Methyl tert-butyl ether Methylcyclohexane	200 NA	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U
8260B	Methylene chloride	5 5	μg/L μg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	μg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	μg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	μg/L	1 U	1 U	1 U	1 U
8260B 8260B	Toluene Total Xylenes	1,000 530	μg/L μg/L	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
8260B	trans-1,2-Dichloroethene	70	μg/L μg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	μg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	μg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	μg/L	1 U	1 U	1 U	1 U
	rolatile Organic Compounds (SVOCs)	1,	~	5 2 7 7	5 1 11	5 1 YY	5.533
8270C 8270C	1,2,4,5-Tetrachlorobenzene 1,4-Dioxane	11 7	μg/L μg/L	5.3 U 2.1 U	5.1 U 2 U	5.1 U 2 U	5.5 U 2.2 U
8270C 8270C	2,3,4,6-Tetrachlorophenol	210	μg/L μg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4,5-Trichlorophenol	3,600	μg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4,6-Trichlorophenol	3.6	μg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4-Dichlorophenol	110	μg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C 8270C	2,4-Dimethylphenol 2,4-Dinitrophenol	140 73	μg/L μg/L	5.3 U 21 U	5.1 U 20 U	5.1 U 20 U	5.5 U 22 U
8270C 8270C	2,4-Dinitrophenoi 2,4-Dinitrotoluene	73	μg/L μg/L	2.1 U	2 U	2 U	2.2 U
8270C	2,6-Dinitrotoluene	36	μg/L	2.1 U	2 U	2 U	2.2 U
-2.00		. 50	1 60 1	20			

**Table 5: ANALYTICAL RESULTS** 

Sample Date/Time:   Samp	4 8/12/2004 M 10:50:00 AM GW
Matrix: GW GW GW GW	GW
Analytical   Analyte   Level (a)   Units	
SVOCs (cont.)           8270C         2-Chloronaphthalene         490         µg/L         5.3 U         5.1 U         5.1 U	
8270C 2-Chlorophenol 0.1 µg/L 5.3 U 5.1 U 5.1 U	5.5 U
	5.5 U
8270C 2-Methyl-4,6-dinitrophenol NA μg/L 21 U 20 U 20 U	22 U
8270C 2-Methylnaphthalene 14 μg/L 2.1 U 2 U 2 U	2.2 U
8270C 2-Methylphenol 1,800 μg/L 5.3 U 5.1 U 5.1 U 8270C 2-Nitroaniline 1 μg/L 5.3 U 5.1 U 5.1 U	5.5 U 5.5 U
8270C         2-Nitroaniline         1         μg/L         5.3 U         5.1 U         5.1 U           8270C         2-Nitrophenol         NA         μg/L         5.3 U         5.1 U         5.1 U	5.5 U
8270C 3,3'-Dichlorobenzidine 0.15 μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C 3-Nitroaniline NA μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C 4-Bromophenyl phenyl ether NA $\mu g/L$ 2.1 U 2 U 2 U	2.2 U
8270C 4-Chloro-3-methylphenol NA μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C 4-Chloroaniline 150 μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C 4-Chlorophenyl phenyl ether NA $\mu$ g/L 2.1 U 2 U 2 U	2.2 U
8270C 4-Nitroaniline NA μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C 4-Nitrophenol NA μg/L 21 U 20 U 20 U	22 U
8270C Acenaphthene 80 μg/L 2.1 U 2 U 2 U	2.2 U
827OC Acenaphthylene 210 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Acetophenone NA μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C         Anthracene         2,100         μg/L         2.1 U         2 U         2 U           8270C         Atrazine         3         μg/L         5.3 U         5.1 U         5.1 U	2.2 U 5.5 U
8270C Ruazine 3 μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C Benzo(a)anthracene 0.0479 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Benzo(a)pyrene 0.00479 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Benzo(b)fluoranthene 0.0479 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Benzo(g,h,i)perylene 210 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Benzo(k)fluoranthene 0.479 µg/L 2.1 U 2 U 2 U	2.2 U
8270C Biphenyl 300 μg/L 2.1 U 2 U 2 U	2.2 U
8270C bis(2-Chloroethoxy)methane NA μg/L 2.1 U 2 U 2 U	2.2 U
8270C Bis(2-chloroethyl) ether 0.031 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Bis(2-chloroisopropyl) ether 0.27 μg/L 2.1 U 2 U 2 U	2.2 U
8270C         Bis(2-ethylhexyl) phthalate         3         μg/L         7.9         2 U         2 U           8270C         Butylbenzyl phthalate         100         μg/L         2.1 U         2 U         2 U	2.2 U
7 71	2.2 U 2.2 U
8270C         Caprolactam         3,500         μg/L         2.1 U         2 U         2 U           8270C         Carbazole         3.4         μg/L         2.1 U         2 U         2 U	2.2 U
8270C Chrysene 4.79 μg/L 2.1 U 2 U 2 U	2.2 U
2 U   2 U	2.2 U
8270C Dibenzofuran 28 μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C Diethyl phthalate 5,000 µg/L 2.1 U 2 U 2 U	2.2 U
8270C Dimethyl phthalate 360,000 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Di-n-butyl phthalate 700 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Di-n-octyl phthalate 140 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Fluoranthene 280 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Fluorene 280 μg/L 2.1 U 2 U 2 U	2.2 U
8270C         Hexachlorobenzene         0.02         μg/L         2.1 U         2 U         2 U           8270C         Hexachlorobutadiene         0.44         μg/L         2.1 U         2 U         2 U	2.2 U 2.2 U
20700 77 11 1 1 7	22 U
8270C         Hexachlorocyclopentadiene         50         μg/L         21 U         20 U         20 U           8270C         Hexachloroethane         4.8         μg/L         5.3 U         5.1 U         5.1 U	5.5 U
8270C Indeno(1,2,3-cd)pyrene 0.0479 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Isophorone 36.8 µg/L 2.1U 2.U 2.U	2.2 U
8270C Naphthalene 21 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Nitrobenzene 3.4 μg/L 2.1 U 2 U 2 U	2.2 U
8270C N-Nitroso-di-n-propylamine 0.0096 μg/L 2.1 U 2 U 2 U	2.2 U
8270C N-Nitrosodiphenylamine 14 μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C Phenanthrene 210 μg/L 2.1 U 2 U 2 U	2.2 U
8270C Phenol 300 μg/L 5.3 U 5.1 U 5.1 U	5.5 U
8270C Pyrene 210 μg/L 2.1 U 2 U 2 U	2.2 U

**Table 5: ANALYTICAL RESULTS** 

		Sai	mple ID:	RW0804-5057- CLAYTONRD	RW0804- HESTERFARM	RW0804-627B- ENONRD	RW0804-564- BETHANYCHURCH
		Sample Da	te/Time:	8/12/2004 10:10:00 AM	8/11/2004 3:25:00 PM	8/11/2004 4:30:00 PM	8/12/2004 10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical		Project Screening	<b>T</b> 1.				
Method	Analyte	Level (a)	Units				
00014	Pesticides/PCBs	0.14	л	0.022 II	0.02.11	0.021 II	0.022.11
8081A	4,4'-DDD 4,4'-DDE	0.14	μg/L	0.022 U 0.022 U	0.02 U 0.02 U	0.021 U 0.021 U	0.022 U 0.022 U
8081A 8081A	4,4'-DDE 4,4'-DDT	0.1	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Aldrin	0.0043	μg/L μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	alpha-BHC	0.019	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	alpha-Chlordane	0.027	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	beta-BHC	0.019	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	delta-BHC	0.019	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Dieldrin	0.0022	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endosulfan I	NA	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endosulfan II	42	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endosulfan sulfate	NA	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endrin	2	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endrin aldehyde	2	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endrin ketone	2	μg/L	0.056 U	0.051 U	0.052 U	0.056 U
8081A	gamma-BHC	0.2	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	gamma-Chlordane	0.027	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Heptachlor	0.008	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
	Heptachlor epoxide	0.004	μg/L	0.022 U	0.02 U	0.021 U	0.022 U
	Methoxychlor	35	μg/L	0.056 U	0.051 U	0.052 U	0.056 U
8081A	Toxaphene	0.031	μg/L	0.28 U	0.26 U	0.26 U	0.28 U
8082 8082	Aroclor 1016 Aroclor 1221	0.5	μg/L	0.56 U 0.56 U	0.51 U 0.51 U	0.52 U 0.52 U	0.56 U 0.56 U
8082	Aroclor 1221 Aroclor 1232	0.5	μg/L	0.56 U 0.56 U	0.51 U 0.51 U	0.52 U 0.52 U	0.56 U
8082	Aroclor 1232 Aroclor 1242	0.5	μg/L μg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1242 Aroclor 1248	0.5	μg/L μg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1254	0.5	μg/L μg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1260	0.5	μg/L μg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1262	0.5	μg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1268	0.5	μg/L	0.56 U	0.51 U	0.52 U	0.56 U
	Herbicides						
	2,4,5-T	360	μg/L	0.22 U	0.24 U	0.21 U	0.21 U
	2,4,5-TP (Silvex)	50	μg/L	0.17 U	0.18 U	0.16 U	0.16 U
8151A	Pentachlorophenol	0.3	μg/L	0.17 U	0.18 U	0.16 U	0.16 U
0220	Explosives/Nitroglycerin	1 100	σ	1 1 77	1.2.11	1 1 77	1 1 1 1 1
8330	1,3,5-Trinitrobenzene 1,3-Dinitrobenzene	1,100	μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330 8330	2,4,6-Trinitrotoluene	3.6	μg/L	1.1 U 1.1 U	1.2 U 1.2 U	1.1 U 1.1 U	1.1 U 1.1 U
	2,4-Dinitrotoluene	73	μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	2,6-Dinitrotoluene	36	μg/L μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	2-Nitrotoluene	61	μg/L μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	3-Nitrotoluene	61	μg/L μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	4-Nitrotoluene	61	μg/L μg/L	1.1 U	1.2 U	1.1 U	1.1 U
	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	μg/L	0.55 U	0.60 U	0.55 U	0.55 U
	Methyl-2,4,6-trinitrophenylnitramine	360	μg/L μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	Nitrobenzene	3.4	μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	μg/L	1.1 U	1.2 U	1.1 U	1.1 U
8332	Nitroglycerine	4.8	μg/L	1.1 U	1.2 U	1.1 U	1.1 U
	Perchlorate						
8321M	Perchlorate	3.6	μg/L	1.91	0.050 U	0.050 U	10.3

**Table 5: ANALYTICAL RESULTS** 

	Sample ID: Sample Date/Time:				RW0804- HESTERFARM 8/11/2004	RW0804-627B- ENONRD 8/11/2004	RW0804-564- BETHANYCHURCH 8/12/2004
		Sample Da	ate/11me:	10:10:00 AM	3:25:00 PM	4:30:00 PM	10:50:00 AM
			Matrix:	GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
	Total Metals						
6010B	Aluminum, Total	36,000	μg/L	354	200 U	118 J	200 U
6010B	Antimony, Total	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L	52.4 J	24.1 J	22.8 J	260
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA 50	μg/L	15,600	36,700	14,400	40,800
6010B 6010B	Chromium, Total Cobalt, Total	50 730	μg/L	10 U 50 U	10 U 50 U	10 U 50 U	10 U 50 U
	· · · · · · · · · · · · · · · · · · ·		μg/L				
6010B 6010B	Copper, Total Iron, Total	1,000 300	μg/L μg/L	25.6 <b>3,210</b>	6.7 J 1,280	9.2 J 984	6.5 J 100 U
6010B	Lead, Total	15	μg/L μg/L	3 U	3.4 U	3 U	3 U
6010B	Magnesium, Total	NA NA	μg/L μg/L	4,570 J	7,000	1,120 J	5,610
6010B	Manganese, Total	50	μg/L	222	540	351	108
7470A	Mercury, Total	1.1	μg/L μg/L	0.2 U	0.2 U	0.099 J	0.2 U
6010B	Nickel, Total	100	μg/L	3.5 J	40 U	40 U	40 U
6010B	Potassium, Total	NA	ug/L	1,800 J	2,770 J	5,000 U	1,070 J
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	μg/L	16,800	11,000	7,640	17,800
6020	Thallium, Total	2	μg/L	1 U	0.84 UJ	1 U	1 U
6010B	Vanadium, Total	260	μg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Total	2,100	μg/L	156	28.4	8.2 J	8.8 J
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
	Dissolved Metals						
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L	5 U	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	μg/L	50.8 J	22.9 J	21.8 J	262
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	μg/L	15,400	37,000	15,200	40,700
6010B	Chromium, Dissolved	50	μg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	μg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	μg/L	20.2 J	25 U	5.9 J	6.3 J
6010B	Iron, Dissolved	300	μg/L	403	266	100 U	100 U
6010B	Lead, Dissolved	15 NA	μg/L	3 U	3 U	3 U	3 U
6010B 6010B	Magnesium, Dissolved Manganese, Dissolved	NA 50	μg/L	4,470 J <b>216</b>	7,090 <b>543</b>	1,140 J <b>354</b>	5,610 13.3 J
7470A	Manganese, Dissolved Mercury, Dissolved	1.1	μg/L	0.2 U	0.12 J	0.2 U	0.2 U
6010B	Nickel, Dissolved	1.1	μg/L μg/L	3.1 J	40 U	2.2 J	40 U
6010B	Potassium, Dissolved	NA	μg/L ug/L	1,850 J	2,890 J	5,000 U	1,110 J
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L μg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA NA	μg/L μg/L	16,900	11,200	7,790	18,200
6020	Thallium, Dissolved	2	μg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	μg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	μg/L	147	34.1	12.2 J	20.6
ug/L - microg		,		· · · · · · · · · · · · · · · · · · ·			

- GW Groundwater.

  J Estimated value.
  NA Not available.
  U Not detected below reported detection limit.
  UJ Not detected below reported detection limit. Detection limit is an estimated value.
  Bolded result exceeds project screening level.
  (a) As determined by the USACE and NCDENR in the Field Sampling Plan.
  (b) Duplicate of sample RW0804-653-LakeviewDr.
  (c) Duplicate of sample RW0804-4578-UzzleRd.
  (d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-6305- ISHAMCHAMBERS	RW0804-2202- TILLEYFARMRD	RW0804- FIELDDUP3 (d)
		Sample Da	ite/Time:	8/12/2004 11:55:00 AM	8/12/2004 1:00:00 PM	8/12/2004 1:00:00 PM
		1	Matrix:	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
	latile Organic Compounds (VOCs)	Zever (u)	CIA			
8260B	1,1,1-Trichloroethane	200	μg/L	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	μg/L	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	μg/L	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	μg/L	1 U	1 U	1 U
8260B 8260B	1,1-Dichloroethene 1,2,3-Trichlorobenzene	7 NA	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U
8260B	1,2,4-Trichlorobenzene	70	μg/L μg/L	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	μg/L	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	μg/L	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	μg/L	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	μg/L	1 U	1 U	1 U
8260B 8260B	1,2-Dichloropropane 1,3-Dichlorobenzene	0.56 620	μg/L	1 U 1 U	1 U 1 U	1 U 1 U
8260B	1,4-Dichlorobenzene	75	μg/L μg/L	1 U	1 U	1 U
8260B	2-Butanone	170	μg/L μg/L	10 U	10 U	10 U
8260B	2-Hexanone	280	μg/L	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	μg/L	5 U	5 U	5 U
8260B	Acetone	700	μg/L	10 U	10 U	10 U
8260B	Benzene	1	μg/L	1 U	1 U	1 U
8260B 8260B	Bromochloromethane Bromodichloromethane	NA 0.56	μg/L μg/L	5 U 1 U	5 U 1 U	5 U 1 U
8260B	Bromoform	0.19	μg/L μg/L	4 U	4 U	4 U
8260B	Bromomethane	8.7	μg/L	2 U	2 U	2 U
8260B	Carbon disulfide	700	μg/L	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	μg/L	1 U	1 U	1 U
8260B	Chlorobenzene	50	μg/L	1 U	1 U	1 U
8260B	Chloroethane	2,800	μg/L	1 U	1 U	1 U
8260B 8260B	Chloroform Chloromethane	0.19	μg/L μg/L	1 U 1 U	1 U 1 U	1 U 1 U
8260B	cis-1,2-Dichloroethene	70	μg/L μg/L	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	μg/L	1 U	1 U	1 U
8260B	Cyclohexane	35,000	μg/L	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	μg/L	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	μg/L	5 U	5 U	5 U
8260B	Ethylbenzene Freon 113	29 210,000	μg/L	1 U 5 U	1 U 5 U	1 U 5 U
8260B 8260B	Isopropylbenzene	70	μg/L μg/L	2 U	2 U	2 U
8260B	M,P-Xylene	530	μg/L μg/L	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	μg/L	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	μg/L	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	μg/L	5 U	5 U	5 U
8260B	Methylene chloride	5	μg/L	2 U	2 U	2 U
8260B 8260B	o-Xylene Styrene	530 100	μg/L μg/L	1 U 5 U	1 U 5 U	1 U 5 U
8260B	Tetrachloroethene	0.7	μg/L μg/L	1 U	1 U	1 U
8260B	Toluene	1,000	μg/L μg/L	1 U	1 U	1 U
8260B	Total Xylenes	530	μg/L	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	μg/L	1 U	1 U	1 U
8260B	Trichloroethene	2.8	μg/L	1 U	1 U	1 U
8260B 8260B	Trichlorofluoromethane Vinyl chloride	2,100 0.015	μg/L	5 U 1 U	5 U 1 U	5 U 1 U
		0.015	μg/L	10	10	10
8270C	volatile Organic Compounds (SVOCs) 1,2,4,5-Tetrachlorobenzene	11	μg/L	5.6 U	5.3 U	5.4 U
8270C 8270C	1,4-Dioxane	7	μg/L μg/L	2.2 U	2.1 U	2.2 U
8270C 8270C	2,3,4,6-Tetrachlorophenol	210	μg/L μg/L	5.6 U	5.3 U	5.4 U
8270C	2,4,5-Trichlorophenol	3,600	μg/L	5.6 U	5.3 U	5.4 U
8270C	2,4,6-Trichlorophenol	3.6	μg/L	5.6 U	5.3 U	5.4 U
8270C	2,4-Dichlorophenol	110	μg/L	5.6 U	5.3 U	5.4 U
8270C	2,4-Dimethylphenol	140	μg/L	5.6 U	5.3 U	5.4 U
8270C 8270C	2,4-Dinitrophenol 2,4-Dinitrotoluene	73 73	μg/L μg/I	22 U 2.2 U	21 U 2.1 U	22 U 2.2 U
8270C 8270C	2,4-Dinitrotoluene 2,6-Dinitrotoluene	36	μg/L μg/L	2.2 U	2.1 U	2.2 U
02/0C	2,0-Difficulture	30	μg/L	2.2 U	4.1 U	4.4 U

**Table 5: ANALYTICAL RESULTS** 

		Sa Sample Da	mple ID:	RW0804-6305- ISHAMCHAMBERS 8/12/2004	RW0804-2202- TILLEYFARMRD 8/12/2004	RW0804- FIELDDUP3 (d) 8/12/2004
		Запри Ва	Matrix:	11:55:00 AM GW	1:00:00 PM GW	1:00:00 PM GW
Analytical Method	Analyte	Project Screening Level (a)	Units	GW	GW	GW
8270C	SVOCs (cont.) 2-Chloronaphthalene	490	μg/L	5.6 U	5.3 U	5.4 U
8270C	2-Chlorophenol	0.1	μg/L μg/L	5.6 U	5.3 U	5.4 U
8270C	2-Methyl-4,6-dinitrophenol	NA	μg/L	22 U	21 U	22 U
8270C	2-Methylnaphthalene	14	μg/L	2.2 U	2.1 U	2.2 U
8270C	2-Methylphenol	1,800	μg/L	5.6 U	5.3 U	5.4 U
8270C	2-Nitroaniline	1	μg/L	5.6 U	5.3 U	5.4 U
8270C	2-Nitrophenol	NA 0.1.7	μg/L	5.6 U	5.3 U	5.4 U
8270C	3,3'-Dichlorobenzidine	0.15	μg/L	5.6 U	5.3 U	5.4 U
8270C 8270C	3-Nitroaniline 4-Bromophenyl phenyl ether	NA NA	μg/L μg/L	5.6 U 2.2 U	5.3 U 2.1 U	5.4 U 2.2 U
8270C	4-Chloro-3-methylphenol	NA NA	μg/L μg/L	5.6 U	5.3 U	5.4 U
8270C	4-Chloroaniline	150	μg/L	5.6 U	5.3 U	5.4 U
8270C	4-Chlorophenyl phenyl ether	NA NA	μg/L	2.2 U	2.1 U	2.2 U
8270C	4-Nitroaniline	NA	μg/L	5.6 U	5.3 U	5.4 U
8270C	4-Nitrophenol	NA	μg/L	22 U	21 U	22 U
8270C	Acenaphthene	80	μg/L	2.2 U	2.1 U	2.2 U
8270C	Acenaphthylene	210	μg/L	2.2 U	2.1 U	2.2 U
8270C	Acetophenone	NA	μg/L	5.6 U	5.3 U	5.4 U
8270C	Anthracene	2,100	μg/L	2.2 U	2.1 U	2.2 U
8270C	Atrazine	3	μg/L	5.6 U	5.3 U	5.4 U
8270C 8270C	Benzaldehyde Benzo(a)anthracene	3,600 0.0479	μg/L	5.6 U 2.2 U	5.3 U 2.1 U	5.4 U 2.2 U
8270C 8270C	Benzo(a)pyrene	0.00479	μg/L μg/L	2.2 U 2.2 U	2.1 U	2.2 U 2.2 U
8270C	Benzo(b)fluoranthene	0.0479	μg/L μg/L	2.2 U	2.1 U	2.2 U
8270C	Benzo(g,h,i)perylene	210	μg/L	2.2 U	2.1 U	2.2 U
8270C	Benzo(k)fluoranthene	0.479	μg/L	2.2 U	2.1 U	2.2 U
8270C	Biphenyl	300	μg/L	2.2 U	2.1 U	2.2 U
8270C	bis(2-Chloroethoxy)methane	NA	μg/L	2.2 U	2.1 U	2.2 U
8270C	Bis(2-chloroethyl) ether	0.031	μg/L	2.2 U	2.1 U	2.2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	μg/L	2.2 U	2.1 U	2.2 U
8270C	Bis(2-ethylhexyl) phthalate	3	μg/L	2.2 U	2.1 U	2.2 U
8270C	Butylbenzyl phthalate	100	μg/L	2.2 U	2.1 U	2.2 U
8270C	Caprolactam	3,500	μg/L	2.2 U	2.1 U	2.2 U
8270C 8270C	Carbazole Chrysene	3.4 4.79	μg/L μg/L	2.2 U 2.2 U	2.1 U 2.1 U	2.2 U 2.2 U
8270C 8270C	Dibenz(a,h)anthracene	0.0047	μg/L μg/L	2.2 U	2.1 U	2.2 U
8270C	Dibenzofuran	28	μg/L μg/L	5.6 U	5.3 U	5.4 U
8270C	Diethyl phthalate	5,000	μg/L	2.2 U	2.1 U	2.2 U
8270C	Dimethyl phthalate	360,000	μg/L	2.2 U	2.1 U	2.2 U
8270C	Di-n-butyl phthalate	700	μg/L	2.2 U	2.1 U	2.2 U
8270C	Di-n-octyl phthalate	140	μg/L	2.2 U	2.1 U	2.2 U
8270C	Fluoranthene	280	μg/L	2.2 U	2.1 U	2.2 U
8270C	Fluorene	280	μg/L	2.2 U	2.1 U	2.2 U
8270C	Hexachlorobenzene	0.02	μg/L	2.2 U	2.1 U	2.2 U
8270C 8270C	Hexachloroputadiene	0.44	μg/L	2.2 U	2.1 U	2.2 U 22 U
8270C 8270C	Hexachlorocyclopentadiene Hexachloroethane	50	μg/L μg/L	22 U <b>5.6 U</b>	21 U 5.3 U	5.4 U
8270C 8270C	Indeno(1,2,3-cd)pyrene	0.0479	μg/L μg/L	2.2 U	2.1 U	2.2 U
8270C	Isophorone	36.8	μg/L μg/L	2.2 U	2.1 U	2.2 U
8270C	Naphthalene	21	μg/L	2.2 U	2.1 U	2.2 U
8270C	Nitrobenzene	3.4	μg/L	2.2 U	2.1 U	2.2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	μg/L	2.2 U	2.1 U	2.2 U
8270C	N-Nitrosodiphenylamine	14	μg/L	5.6 U	5.3 U	5.4 U
8270C	Phenanthrene	210	μg/L	2.2 U	2.1 U	2.2 U
8270C	Phenol	300	μg/L	5.6 UJ	5.3 U	5.4 U
8270C	Pyrene	210	μg/L	2.2 U	2.1 U	2.2 U

**Table 5: ANALYTICAL RESULTS** 

		Sa	mple ID:	RW0804-6305- ISHAMCHAMBERS	RW0804-2202- TILLEYFARMRD	RW0804- FIELDDUP3 (d)
		Sample Da	nte/Time:	8/12/2004 11:55:00 AM	8/12/2004 1:00:00 PM	8/12/2004 1:00:00 PM
			Matrix:	GW	GW	GW
Analytical		Project Screening				
Method	Analyte	Level (a)	Units			
	Pesticides/PCBs					
8081A	4,4'-DDD	0.14	μg/L	0.023 U	0.022 U	0.022 U
8081A	4,4'-DDE	0.2	μg/L	0.023 U	0.022 U	0.022 U
8081A	4,4'-DDT	0.1	μg/L	0.023 U	0.022 U	0.022 U
8081A	Aldrin	0.0043	μg/L	0.023 U	0.022 U	0.022 U
8081A	alpha-BHC	0.019	μg/L	0.023 U	0.022 U	0.022 U
8081A	alpha-Chlordane	0.027	μg/L	0.023 U	0.088	0.088
8081A	beta-BHC	0.019	μg/L	0.023 U	0.022 U	0.022 U
8081A	delta-BHC	0.019	μg/L	0.023 U	0.022 U	0.022 U
8081A	Dieldrin	0.0022	μg/L	0.023 U	0.022 U	0.022 U
8081A	Endosulfan I	NA 12	μg/L	0.023 U	0.022 U	0.022 U
8081A	Endosulfan II	42	μg/L	0.023 U	0.022 U	0.022 U
8081A	Endosulfan sulfate	NA	μg/L	0.023 U	0.022 U	0.022 U
8081A	Endrin	2	μg/L	0.023 U	0.022 U	0.022 U
8081A	Endrin aldehyde	2	μg/L	0.023 U	0.022 U	0.022 U
8081A	Endrin ketone	2	μg/L	0.057 U	0.056 U	0.056 U
8081A	gamma-BHC	0.2	μg/L	0.023 U	0.022 U	0.022 U
8081A	gamma-Chlordane	0.027	μg/L	0.023 U	0.13	0.13
8081A	Heptachlor	0.008	μg/L	0.023 U	0.022 U	0.022 U
8081A	Heptachlor epoxide	0.004	μg/L	0.023 U	0.48	0.49
8081A	Methoxychlor	35	μg/L	0.057 U	0.056 U	0.056 U
8081A	Toxaphene	0.031	μg/L	0.28 U	0.28 U	0.28 U
8082	Aroclor 1016	0.5	μg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1221	0.5	μg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1232	0.5	μg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1242	0.5	μg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1248	0.5	μg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1254	0.5	μg/L	0.57 U	0.56 U	0.56 U
8082 8082	Aroclor 1260	0.5 0.5	μg/L	0.57 U	0.56 U 0.56 U	0.56 U 0.56 U
8082	Aroclor 1262 Aroclor 1268	0.5	μg/L μg/L	0.57 U 0.57 U	0.56 U	0.56 U
8082	Arocior 1208	0.5	μg/L	0.57 U	0.50 U	0.50 U
	Herbicides					
8151A	2.4.5-T	360	μg/L	0.24 U	0.22 U	0.21 U
8151A	2,4,5-TP (Silvex)	50	μg/L μg/L	0.18 U	0.17 U	0.16 U
8151A	Pentachlorophenol	0.3	μg/L μg/L	0.18 U	0.17 U	0.16 U
	Explosives/Nitroglycerin	0.5	F5/12	3.10 0	0.17 0	5.10 0
8330	1,3,5-Trinitrobenzene	1,100	μg/L	1.1 U	1.1 U	1.1 U
8330	1,3-Dinitrobenzene	3.6	μg/L	1.1 U	1.1 U	1.1 U
8330	2,4,6-Trinitrotoluene	2.2	μg/L	1.1 U	1.1 U	1.1 U
8330	2,4-Dinitrotoluene	73	μg/L	1.1 U	1.1 U	1.1 U
8330	2,6-Dinitrotoluene	36	μg/L	1.1 U	1.1 U	1.1 U
8330	2-Nitrotoluene	61	μg/L	1.1 UJ	1.1 U	1.1 U
8330	3-Nitrotoluene	61	μg/L	1.1 U	1.1 U	1.1 U
8330	4-Nitrotoluene	61	μg/L	1.1 U	1.1 U	1.1 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	μg/L	0.55 U	0.55 U	0.55 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	μg/L	1.1 U	1.1 U	1.1 U
8330	Nitrobenzene	3.4	μg/L	1.1 UJ	1.1 U	1.1 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	μg/L	1.1 U	1.1 U	1.1 U
8332	Nitroglycerine	4.8	μg/L	1.1 U	1.1 U	1.1 U
	Perchlorate					
8321M	Perchlorate	3.6	μg/L	0.050 U	1.83	1.89

**Table 5: ANALYTICAL RESULTS** 

		Sa Sample Da	mple ID:	RW0804-6305- ISHAMCHAMBERS 8/12/2004 11:55:00 AM	RW0804-2202- TILLEYFARMRD 8/12/2004 1:00:00 PM	RW0804- FIELDDUP3 (d) 8/12/2004 1:00:00 PM
			Matrix:	GW	GW	GW
Analytical Method	Analyte Total Metals	Project Screening Level (a)	Units		5	
6010B	Aluminum, Total	36,000	μg/L	200 U	200 U	200 U
6010B	Antimony, Total	6	μg/L μg/L	5 U	5 U	5 U
6010B	Arsenic, Total	10	μg/L μg/L	5 U	5 U	5 U
6010B	Barium, Total	2,000	μg/L μg/L	37.6 J	12.6 J	14.9 J
6020	Beryllium, Total	4	μg/L	2 U	2 U	2 U
6010B	Cadmium, Total	5	μg/L	4 U	4 U	4 U
6010B	Calcium, Total	NA NA	μg/L	43,100	6,900	6,710
6010B	Chromium, Total	50	μg/L	10 U	10 U	10 U
6010B	Cobalt, Total	730	μg/L	50 U	50 U	50 U
6010B	Copper, Total	1,000	μg/L	25 U	62.4	75.9
6010B	Iron, Total	300	μg/L	1,000	199	185
6010B	Lead, Total	15	μg/L	3 U	4.4	3.8
6010B	Magnesium, Total	NA	μg/L	9,190	1,770 J	1,730 J
6010B	Manganese, Total	50	μg/L	634	15 U	15 U
7470A	Mercury, Total	1.1	μg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	μg/L	40 U	40 U	40 U
6010B	Potassium, Total	NA	ug/L	1,610 J	5,000 U	5,000 U
6010B	Selenium, Total	50	μg/L	5 U	5 U	5 U
6010B	Silver, Total	18	μg/L	10 U	10 U	10 U
6010B	Sodium, Total	NA	μg/L	11,800	8,800	9,010
6020	Thallium, Total	2	μg/L	0.68 UJ	1 U	1 U
6010B	Vanadium, Total	260	μg/L	50 U	50 U	50 U
6010B	Zinc, Total	2,100	μg/L	155	30.5	56.2
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U
	Dissolved Metals					
6010B	Aluminum, Dissolved	36,000	μg/L	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	μg/L	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	μg/L	5 U	4.1 J	5 U
6010B	Barium, Dissolved	2,000	μg/L	41.2 J	15 J	14.7 J
6020	Beryllium, Dissolved	4	μg/L	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	μg/L	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	μg/L	45,200	7,040	6,770
6010B	Chromium, Dissolved	50	μg/L	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	μg/L	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	μg/L	25 U	48.4	63.5
6010B	Iron, Dissolved	300	μg/L	995	100 U	100 U
6010B	Lead, Dissolved	15	μg/L	3 U	3 U	3.4
6010B	Magnesium, Dissolved	NA	μg/L	9,550	1,810 J	1,760 J
6010B	Manganese, Dissolved	50	μg/L	668	15 U	15 U
7470A	Mercury, Dissolved	1.1	μg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	μg/L	40 U	40 U	40 U
6010B	Potassium, Dissolved	NA	ug/L	1,840 J	5,000 U	5,000 U
6010B	Selenium, Dissolved	50	μg/L	5 U	5 U	5 U
6010B	Silver, Dissolved	18	μg/L	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	μg/L	12,600	9,310	8,910
6020	Thallium, Dissolved	2	μg/L	0.65 J	1 U	1 U
6010B	Vanadium, Dissolved	260	μg/L	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	μg/L	155	37.3	79.5

J - Estimated value.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

**Table 6: DETECTED RESULTS** 

LOCATION and	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
DETECTED PARAMETER		LEVEL (µg/L)	RESULT <sup>4</sup>
NORTH CAROLINA NATION			
Perchlorate	0.294	3.6	1.83
Calcium	34,500	NA	6,900
Copper	131	1,000	62.4
Lead	14.8	15	4.4
Magnesium	9,100	NA	1,810
Potassium	595 J	NA	ND
Sodium	10,900	NA	8,800
Zinc	364	2,100	30.5

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND - Not detected at off-site location

J - Value is estimated

- 1 Dissolved metals result shown, total metals result detected lower than dissolved metals result
- 2 Total metals result shown, dissolved metals result not detected above the laboratory detection limit
- 3 Dissolved metals result shown, total metals result not detected above the laboratory detection limit
- 4 Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
652 LAKEVIEW DRIVE			
Perchlorate	3.94	3.6	1.83
Barium	18.9 J	2,000	15
Calcium	6,430	NA	6,900
Copper	9 J	1,000	62.4
Iron	<b>844</b> <sup>2</sup>	300	199
Magnesium	1,440 J	NA	1,810
Manganese	533	50	ND
Potassium	1,050 J	NA	ND
Sodium	7,560	NA	8,800
Zinc	958	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)		PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
653 LAKEVIEW DRIVE and D	UPLICATE 1			
	PRIMARY	DUPLICATE		
Perchlorate	0.335	0.291	3.6	1.83
Calcium	11,800	11,700	NA	6,900
Copper	11.1 J	10.2 J	1,000	62.4
Lead	8.2	7.1	15	4.4
Magnesium	3,420 J	3,380 J	NA	1,810
Mercury	$0.092 \mathrm{J}^{3}$	0.015 J	1.1	ND
Nickel	3.7 J	ND	100	ND
Sodium	11,000	11,200	NA	8,800
Zinc	10.5 J	10.5 J	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	RESULT (μg/L) PROJECT SCREENING LEVEL (μg/L)	
658 LAKEVIEW DRIVE			
Perchlorate	0.254	3.6	1.83
Barium	5.2 J	2,000	15
Calcium	35,000	NA	6,900
Copper	$2.7~\mathrm{J}^{~3}$	1,000	62.4
Magnesium	5,600	NA	1,810
Manganese	19	50	ND
Potassium	950 J <sup>1</sup>	NA	ND
Sodium	9,880	NA	8,800
Thallium	0.97 J	2	ND
Zinc	19.5 J	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and	RESULT (μg/L)	PROJECT SCREENING	OFF-SITE
DETECTED PARAMETER		LEVEL (µg/L)	RESULT 4
3536 FLETCHERS WAY			
Barium	8.5 J	2,000	15
Calcium	5,780	NA	6,900
Copper	6.3 J	1,000	62.4
Iron	<b>385</b> <sup>2</sup>	300	199
Magnesium	3,560 J	NA	1,810
Manganese	93.4	50	ND
Potassium	1,190 J	NA	ND
Sodium	8,240	NA	8,800
Zinc	16.3 J	2,100	30.5

Metals results are from the total metals analysis unless otherwise identified

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**Table 6: DETECTED RESULTS** 

<b>LOCATION and DETECTED</b>	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
PARAMETER		LEVEL (µg/L)	RESULT 4
CAMP BARHAM			
Perchlorate	0.227 J	3.6	1.83
Calcium	23,500	NA	6,900
Copper	16.5 J	1,000	62.4
Lead	<b>35.7</b> <sup>1</sup>	15	4.4
Magnesium	5,310	NA	1,810
Sodium	10,300	NA	8,800
Zinc	69.9 <sup>1</sup>	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
PARAMETER		LEVEL (µg/L)	RESULT 4
CAMP EASON			
Bis(2-Ethylhexyl)phthalate	9.3	3	
Chloroform	0.23 J	0.19	
Perchlorate	0.504	3.6	1.83
Calcium	10,200	NA	6,900
Copper	25	1,000	62.4
Lead	12.1	15	4.4
Magnesium	4,060 J	NA	1,810
Sodium	10,400	NA	8,800
Zinc	26.9	2,100	30.5

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND - Not detected at off-site location

J – Value is estimated

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- 4 Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
PARAMETER		LEVEL (µg/L)	RESULT 4
4051 RANGE ROAD			
Perchlorate	0.079 J	3.6	1.83
Barium	39.6 J	2,000	15
Calcium	25,000	NA	6,900
Iron	<b>619</b> <sup>2</sup>	300	199
Magnesium	3,720 J	NA	1,810
Manganese	366	50	ND
Sodium	12,200	NA	8,800
Zinc	270	2,100	30.5

Metals results are from the total metals analysis unless otherwise identified

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J - Value is estimated

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- 2 Total metals result shown, dissolved metals result not detected above the laboratory detection limit
- 3 Dissolved metals result shown, total metals result not detected above the laboratory detection limit
- 4 Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
PARAMETER		LEVEL (µg/L)	RESULT 4
4149 RANGE ROAD			
Barium	18.1 J	2,000	15
Calcium	36,600	NA	6,900
Copper	11.4 J	1,000	62.4
Magnesium	3,780 J	NA	1,810
Manganese	372	50	ND
Sodium	10,500	NA	8,800
Zinc	1,010	2,100	30.5

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NA – None available

ND - Not detected at off-site location

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- 3 Dissolved metals result shown, total metals result not detected above the laboratory detection limit
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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE	
PARAMETER		LEVEL (µg/L)	RESULT 4	
750 LITTLE MOUNTAIN ROA	750 LITTLE MOUNTAIN ROAD			
Barium	50.8 J	2,000	15	
Calcium	72,200	NA	6,900	
Magnesium	8,000	NA	ND	
Manganese	177	50	ND	
Potassium	1,200 J	NA	ND	
Sodium	15,000	NA	8,800	
Zinc	22.3 1	2,100	30.5	

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND - Not detected at off-site location

J – Value is estimated

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (μg/L) PROJECT SCREENING LEVEL (μg/L)		OFF-SITE RESULT <sup>4</sup>
4535 UZZLE ROAD			
Aluminum	10,000	36,000	ND
Barium	85.4 J	2,000	15
Beryllium	0.35 J	4	ND
Calcium	16,200	NA	6,900
Chromium	5.4 J	50	ND
Cobalt	5.3 J	730	ND
Copper	51.8	1,000	62.4
Iron	5,490	300	199
Lead	<b>39.9</b> <sup>2</sup>	15	4.4
Magnesium	3,050 J	NA	1,810
Manganese	406	50	ND
Mercury	0.17 J	1.1	ND
Nickel	6 J	100	ND
Potassium	563 J	NA	ND
Selenium	6.3	50	ND
Sodium	11,800	NA	8,800
Vanadium	15.3 J	260	ND
Zinc	60.3	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
191 FALCON LANE		, , , , , , , , , , , , , , , , , , ,	
Barium	42.9 J	2,000	15
Calcium	69,900	NA	6,900
Copper	20.1 J	1,000	62.4
Iron	141	300	199
Magnesium	6,680	NA	ND
Manganese	289	50	ND
Nickel	$3.3 \mathrm{J}^3$	100	ND
Potassium	$2,540 \text{ J}^{1}$	NA	ND
Sodium	11,700	NA	8,800
Zinc	26.3	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
4553 UZZLE ROAD		70	
Barium	142 J	2,000	15
Calcium	45,000	NA	6,900
Copper	4.8 J	1,000	62.4
Magnesium	4,400 J	NA	1,810
Manganese	195	50	ND
Potassium	2,030 J	NA	ND
Sodium	8,310	NA	8,800
Zinc	108	2,100	30.5

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND - Not detected at off-site location

J – Value is estimated

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- 2 Total metals result shown, dissolved metals result not detected above the laboratory detection limit
- 3 Dissolved metals result shown, total metals result not detected above the laboratory detection limit
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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
4573 UZZLE ROAD			
Perchlorate	0.100 J	3.6	1.83
Calcium	11,600	NA	6,900
Copper	27.5	1,000	62.4
Iron	1,140	300	199
Magnesium	2,310 J	NA	1,810
Manganese	46.6	50	ND
Nickel	$2.4 \text{ J}^3$	100	ND
Potassium	986 J	NA	ND
Sodium	5,760	NA	8,800
Zinc	26.4	2,100	30.5

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND - Not detected at off-site location

J - Value is estimated

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)		PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
4578 UZZLE ROAD and DUI	PLIATE 2		• 0	
	PRIMARY	DUPLICATE		
Barium	15.7 J	15.4 J	2,000	15
Calcium	8,270	8,120	NA	6,900
Chromium	3.4 J	3.2 J	50	ND
Copper	20.1 J	14.1 J	1,000	62.4
Magnesium	2,110 J	2,070 J	NA	1,810
Manganese	12.6 J	12.2 J	50	ND
Nickel	2.6 J	3.1 J	100	ND
Potassium	808 J	763 J	NA	ND
Sodium	4,490 J	4,450 J	NA	8,800
Zinc	15.5 J	12.8 J	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
4710 MORIAH ROAD		(mg/=)	
Methyl Tert Butyl Ether	71.1	200	
Perchlorate	0.518	3.6	1.83
Aluminum	695	36,000	ND
Barium	17 J	2,000	15
Calcium	65,200	NA	6,900
Chromium	1.6 J	50	ND
Copper	50.4	1,000	62.4
Iron	<b>3,290</b> <sup>2</sup>	300	199
Lead	5.9	15	4.4
Magnesium	8,510	NA	1,810
Manganese	310	50	ND
Potassium	1,660 J	NA	ND
Sodium	17,700	NA	8,800
Zinc	102	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
DETECTED PARAMETER		LEVEL (µg/L)	RESULT 4
4709 MORIAH ROAD			
Calcium	$234 J^{1}$	NA	6,900
Copper	11.8 J	1,000	62.4
Iron	162	300	199
Magnesium	13.8 J	NA	1,810
Manganese	2.7 J	50	ND
Sodium	87,100	NA	8,800
Zinc	10.0 J	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>
5057 CLAYTON ROAD			
Bis(2-ethylhexyl)phthalate	7.9	3	
Perchlorate	1.91	3.6	1.83
Aluminum	354	36,000	ND
Barium	52.4 J	2,000	15
Calcium	15,600	NA	6,900
Copper	25.6	1,000	62.4
Iron	3,210	300	199
Magnesium	4,570 J	NA	1,810
Manganese	222	50	ND
Nickel	3.5 J	100	ND
Potassium	1,800 J	NA	ND
Sodium	16,800	NA	8,800
Zinc	156	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
DETECTED PARAMETER		LEVEL (µg/L)	RESULT <sup>4</sup>
HESTER FARM			
Barium	24.1 J	2,000	15
Calcium	36,700	NA	6,900
Copper	6.7 J	1,000	62.4
Iron	1,280	300	199
Magnesium	7,000	NA	1,810
Manganese	540	50	ND
Mercury	$0.12  \mathrm{J}^{3}$	1.1	ND
Potassium	$2,890 J^2$	NA	ND
Sodium	11,000	NA	8,800
Zinc	28.4	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT <sup>4</sup>		
627B ENON ROAD		· V*8 /			
Aluminum	118 J	36,000	ND		
Barium	22.8 J	2,000	15		
Calcium	14,400	NA	6,900		
Copper	9.2 J	1,000	62.4		
Iron	<b>984</b> <sup>2</sup>	300	199		
Magnesium	1,120 J	NA	1,810		
Manganese	351	50	ND		
Mercury	0.099 J	1.1	ND		
Sodium	7,640	NA	8,800		
Zinc	8.2 J	2,100	30.5		

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**Table 6: DETECTED RESULTS** 

LOCATION and	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
DETECTED PARAMETER		LEVEL (μg/L)	RESULT 4
564 BETHANY CHURCH RO			
Perchlorate	10.3	3.6	1.83
Barium	260	2,000	15
Calcium	40,800	NA	6,900
Copper	6.5 J	1,000	62.4
Magnesium	5,610	NA	ND
Manganese	108	50	ND
Potassium	1,070 J	NA	ND
Sodium	17,800	NA	8,800
Zinc	20.6 1	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and	RESULT (µg/L)	PROJECT SCREENING	OFF-SITE
DETECTED PARAMETER		LEVEL (µg/L)	RESULT 4
6305 ISHAM CHAMBERS RC			
Barium	37.6 J	2,000	15
Calcium	43,100	NA	6,900
Iron	1,000	300	199
Magnesium	9,190	NA	ND
Manganese	634	50	ND
Potassium	$1,840~{ m J}^{-1}$	NA	ND
Sodium	11,800	NA	8,800
Thallium	$0.65 J^3$	2	ND
Zinc	155	2,100	30.5

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**Table 6: DETECTED RESULTS** 

LOCATION and DETECTED PARAMETER	RESU	LT (µg/L)	PROJECT SCREENING LEVEL (µg/L)				
2022 TILLEY FARM ROAD A	ND DUPLIC	ATE 3 (Off-site I					
	PRIMARY	DUPLICATE	,				
Alpha-chlordane	0.088	0.088	0.027 (total)				
Gamma-chlordane	0.13	0.13	0.027 (total)				
Heptachlor epoxide	0.48	0.49	0.004				
Perchlorate	1.83	1.89	3.6				
Arsenic	$4.1  \mathrm{J}^{3}$	ND	10				
Barium	12.6 J	14.9 J	2,000				
Calcium	6,900	6,710	NA				
Copper	62.4	75.9	1,000				
Iron	199	185	300				
Lead	4.4	3.8	15				
Magnesium	1,770 J	1,730 J	NA				
Sodium	8,800	9,010	NA				
Zinc	37.3 <sup>1</sup>	79.5 <sup>1</sup>	2,100				

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## APPENDIX A

WELL INFORMATION

**Table A-1: Well Information Summary** 

LOCATION	INSTALLATION	WELL DRILLER	WELL	CASING DIAMETER/	PUMP DEPTH/	ESTIMATED DEPTH
	DATE	INFO	DEPTH	DEPTH	<b>PUMP RATE</b>	TO GROUNDWATER
National Guard			230 feet	6 inches/Unknown		
652 Lakeview Dr.	May 10, 2002	Acme Well Drilling	145 feet	6 inches/43 feet	Unknown/50 gpm	78 feet
653 Lakeview Dr.						
658 Lakeview Dr.	Fall/Winter 1996	Craig Husketh				
3536 Fletchers Way						
Camp Barham						
Camp Eason						
4051 Range Rd	1960s		200 feet		185 feet	
4149 Range Rd	August 2001		400 feet	Unknown/20 feet	350 feet/35 gpm	25 feet
750 Little Mountain Rd			185 feet			20 feet
4535 Uzzle Rd						
191 Falcon Lane	1991	Craig Husketh	425 feet	8 inches/35 feet	410 feet/6 gpm	280 feet
4553 Uzzle Rd	August 2002				Unknown/15 gpm	300 feet
4573 Uzzle Rd						
4578 Uzzle Rd						
4710 Moriah Rd	1950s		100 feet	6 inches		20 feet
4709 Moriah Rd						
5057 Clayton Rd						
Hester Farm/Residence						
off Uzzle Road						
627B Enon Rd						
564 Bethany Church Rd	1977	Heater Well	120 feet	6 inches	108 feet/2.3 gpm	15 feet
		Company				
6305 Isham Chambers Rd			200 feet		Unknown/3-4 gpm	
2202 Tilley Farm Rd						

## APPENDIX B

# SAMPLING RECORD FORMS and CHAIN OF CUSTODY FORMS

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# CHAIN OF CUSTODY

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Send Report to:												8270C		/ 8	<	se	s (t	0) (2	<u> </u>			
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Accutest Job #:	11-17-8	N74646
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Client Information Facility Information											4,333	Analy	tical Info	rmation					
Debra L. McGrath			Form	er Camp	Butner	•													
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2 Technology Park Drive									_	į									
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Debra L. McGrath			Form	er Camp	Butne	r									·	8				l
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Send Report to: Phone #: (978) 589-3358		FAX#:	(978) 5	89-3282	2					SVOCs / 8270C	Pesticides / PCBs / 8081A 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
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Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	고	NaOH	H2So4	None	ons	Pestic 8082	Herb	Expl 8330	Perc	TAL 6020	TAL / 602	Cyaı			
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Accutest Job #:	CA74770	N74646
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Send Report to: Phone #: (978) 589-3358		FAX#:	(978) 5	589-328	2					SVOCs / 8270C	es / F	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	174514	
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Client Information		1	Facili	ty Inforn	nation						1000	Analy	tical Infe	rmation						
Debra L. McGrath				er Camp												8				
Name 2 Technology Park Drive		Project Nar	ne	•							\ A		<i>)</i> -		/B/	601				
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74514	
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Phone #:	(978) 589-3	358		FAX	#:	(978) 5	89-328	2					8/	Ses	qes	332	orat	etal 747	etal / 74	-/ e			
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Accutest Job #:	174914	
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74514	
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Name				Project	Name	•												/ 8	6010B			l	
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74514
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Send Report to Phone #:	: (978) 589-3358		FAX#:	(978) 5	89-328	2					VOCs / 8260B								·	
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

ccutest Job #:	N74914	
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Send Report to: Phone #: (978) 589-3358	FAX #:	(978)	89-328	2					SVOCs / 8270C	les / P	Herbicides / 8151	res / 1 332	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6020 / 7470A	_			
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Field ID / Point of Collection page	ate Time	Sampled By	Matrix	# of bottles	구	NaOH HNO3	H2So4	None	SVO	Pesticides / F 8082	Herb	Explosives / 8330/8332	Perc	TAL 6020	TAL / 602	Cyanide			
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RUSH TAT is for FAX data unless previously approved.	RUSH TAT is for FAX data									-									
Sample Cust	Sample Custody must be documented below each time samples change po							sesio	n, includii	ng courier d	elivery.				111111111111111111111111111111111111111				
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74814	
Accutest Quote #:		

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Send Report to Phone #:	o: (978) 589-3358	•	FAX#:	(978) 5	89-328	,					56(				1						
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Field ID	Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	고		H2So4	None	VOCs / 8260B										
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74914	
Accutest Quote #:		

Client Information					Facili	ty Inforn	nation	000000						Anal	ytical Info	rmation		i yadaa taasaa SSS aa Jaara SSS aa			
Debra L. McGrath					Form	er Camp	Butne	г										98			
Name 2 Technology Park Dri	ive		Project	Name									1A /		in/		0B /	/ 601			
Address Westford MA		01886	Locatio	n									808 /		lycer	Σ	/ 601	ved)			
City State	e .	Zip	Project	/PO#:		0	9090-	)68				ပ္က	CBs	151	litrog	, 832	otal)	lissol A	2A		
Send Report to: Phone #: (978) 589-3358	В		FAX#		(978) 5	89-3282	2					SVOCs / 8270C	Pesticides / PCBs / 8081A 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A		
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Field ID / Point of Collec	tion	Date	Tim		Sampled By	Matrix	# of bottles	권	NaOH	H2So4	None	SVO	Pesti 8082	Herb	Explo 8330	Percl	TAL 6020	TAL / 602	Cyar		
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Turnaround Inforr	mation					1.3 <sup>1</sup>	Data	Deliv	/erab	le ir	ıform	ation	<u> </u>			Comme	nts / Rem	arks			
21 Day Standard		Approve	d By:		NJ Red	uced			Con	nme	rcial '	"A"									
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X 7 Days EMERGENCY					FULL C	LP			ASP	Cate	едогу	В									
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74514	
Accutest Quote #:		

Client Information Facility Information									1. 0000		ena u e <sup>m</sup> inimus <b>I</b>	Anal	tical Info	rmation I		000000000000000000000000000000000000000	000000000000000000000000000000000000000	7997	0000 m. h vight long	30000 TOWN TO
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Debra L. McGrath				er Camp	Butner	•														
Name		Project Nam	е																	
2 Technology Park Drive		Location							-											
Westford MA	01886	Location																		
	Zip	Project/PO#	:											ŀ						
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Send Report to:		<u> </u>			_					8260B										
Phone #: (978) 589-3358		FAX#:	(978) 5	89-3282	2					82										
		Collection				Pre	esen	_	_	/ S:									1	
			Sampled		# of	ا بر ا	NaOH HNO3	H2So4	None	Vocs										
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Sample Custody must be documented below each time samples change p							osse	ioize	n, including	g courier d	elivery.				Basak : 3 E					
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Accutest Job #:	N74914	
Accutest Quote #:	•	

Client Information			Facili	ty Inform	nation							Anal	ytical Info	rmation				File series		
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Name		Project Nar									-				_	۶ ا				
2 Technology Park Drive											11A		ji,		80	9/				
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Westford MA	01886	D	и.						_		%		<del>[</del> 6	211	)/(	हॅ				
City State	Zip	Project/PO	#:	0	9090-0	68				၁င	/ PCBs / 8081A	Herbicides / 8151	/ Nitroglycerin/	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	AL Metals (dissolved) / 6010B 6020 / 7470A	12A			
Send Report to:										27(	A	8/	🗧	es	s (t	s (c	99			
Phone #: <u>(978) 589-3358</u>		FAX#:	(978) 5	89-328	2					18	Jes	des	332	rat	stal 747	etal	- O			
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Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	로	NaOH HNO3	H2So4	None	SVOCs / 8270C	Pesticides 8082	Herk	Explosives / 8330/8332	Perc	TAL Metals (t 6020 / 7470A	TAL / 602	Cyanide / 9012A			
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RW0804-FieldDup2	1	١	16	GW	2				х		х									
RW0804-FieldDup2			15	GW	2				х			Х								
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RW0804-FieldDup2		0925	15	GW	1				X					Х						
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Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	V74514	
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	McGrath					er Camp	Butne	r														
Name				Project Nam	e														1		1	
	ology Park Dri	ve									$\dashv$											
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City	State	-	Zip .	FIOJECUPOR	•	n	90904	068														
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Phone #:	(978) 589-3358	3		FAX#:	(978) 5	89-3282	2					326										
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## CHAIN OF CUSTODY

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Client Information	er	Facili	ty Inforn	nation							Anal	ytical Info	rmation			1		r	
Debra L. McGrath		Form	er Camp	Butner	•										8	1			İ
Name 2 Technology Park Drive	Project Nam	je								1A /		in/		0B /	/ 601				
Address Westford MA 01886	Location									/ 808		lycer	Σ	/ 601	ved)				
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	Collection	)			Р	reser		$\overline{}$	္က	ticic		losi 0/8/	差	¥ ′0	Z0.₹	핕			İ
Field ID / Point of Collection Date	Time	Sampled By	Matrix	# of bottles	로	NaOH HNOS	H2S04	None	SVOCs / 8270C	Pesticides / F 8082	Heri	Exp 833	Per	TAL 602	TAL / 60	Cyanide / 9012A			
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RW0804-6305-IshamChambers	1278	25	GW	2				x			X						,		
RW0804-6305-IshamChambers	1205	JE13	GW	3				x				x							
RW0804-6305-IshamChambers	17.10	25	GW	1				x					X						
RW0804-6305-IshamChambers	12.10	15	GW	1		>	<u>(                                    </u>	Ш						X					
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Turnaround Information				Data	Deli	verabl	e In	forma	ation				Comme	nts / Rem	arks				
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Accutest Job #:	N74914	
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	Client Informa	ation I	0 - 0.00000000		Facility Information						jir eT			Analy	tical Info	rmation !		k ees ees ee				
Debra I	L. McGrath		1 1,4 20,44,3000			er Camp		<u> </u>	0000 No. 1					7.1.41							***	x x 3001 W ( 007 1
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Send Report t Phone #:	o: _(978) 589-3358	3		FAX#:	(978) 5	89-3282	2					/ 8260B										
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Field ID	/ Point of Collect	tion	Date	Time	Sampled By	Matrix	# of bottles	로	NaOH HNO3	H2So4	None	Vocs										
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5					5														2.40			

Accutest Job #:		
	N74914	
Accutest Quote #:		

	Client Infor	mation			Facil	ity Inforn	nation	T/CF						Anal	ytical Info	rmation			255555555			- 11 gala
Debra I	L. McGrath		100000000000000000000000000000000000000			ner Camp		r					1		Í			щ				T
Name	. mooran			Project Nam								ĺ	_ '				1	1 5				
2 Techr	nology Park [	<u>Drive</u>										Ė	/ 8081A		<u> </u>		89	)9/				
Address				Location		-	Y						808		Cer		507	। ਨ੍ਹਾ				
Westford		1A	01886										3/2		) g	211	9/(	🚆			,	†
City	St	tate	Zip	Project/PO#	<b>#</b> :	C	9090-0	368				ပ္က	PCBs,	151	litro	83,	otal	lissc 4	2A			
Send Report to	<b>ɔ</b> :			1								270	/ P	80 /	<	es /	β. Q.	9 6	8			
Phone #:	(978) 589-33	58		FAX #:	(978) 5	589-328	2			_		/ 8	Jes	des	ves 332	rate	stals 747	stals 774	6 / S			
				Collection	1			P	reser			ျ	ficic	<u> </u>	losi 0/8	岩	Ψ̈́,	Σ̈́Ω	je			
Field ID	/ Point of Colle		Date	Time	Sampled By	Matrix	# of bottles	로	NaOH L	HNO3	H2So4 None	SVOCs / 8270C	Pesticides / F 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
RW0804-M5	3 )		8/12/04	1200	75	GW	2				Х	Х										
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14 Day					X NJ Full	ı			Con	nm∈	ercial "	ъ"										
X 7 Days	EMERGENCY				TOLL O	CLP			ASP	Cat	едогу	В										
Other	([	Days)			1 Disk D	eliverable	<b>)</b>	$\vdash$	Stat	te Fr	orms											
\	s for FAX data	•			Other (	(Specify)			,													
	iously approved.				<u> </u>	.====							`							,	···	
Sample Custody must be documented below each time samples change pos  Relinguished by Samples:   Date Time:   Received By:   R						n, includin Ished By:	ig courier d	lelivery.	Date Time:			Received B	5v-									
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Accutest Job #:	N74917
Accutest Quote #:	

Client Informati	on		Facili	ty Inforn	nation				Ĭ.			Anal	ytical Info	rmation						
Debra L. McGrath			Form	er Camp	Butne	r					j		1			8			, ]	
Name		Project Nam	е							}	>		l .		~	/ 6010B			,	
2 Technology Park Drive	•	<u> </u>									Pesticides / PCBs / 8081A 8082		/ Nitroglycerin/		TAL Metals (total) / 6010B 6020 / 7470A	9/1				
Address	04000	Location									8		Çe	5	90,	(pa				
Westford MA City State	01886 Zip	Project/PO#	<b>,</b> ,								18	_	<u> </u>	211	<u> </u>	-lo		1	. 1	
City State	Zip	riojecuro,		0	9090-0	068				ပ္	l ë	Herbicides / 8151	뵲	Perchlorates / 8321M	otal	'AL Metals (dissolved) 6020 / 7470A	2A	i l		
Send Report to:		1								/ 8270C	J G	/ 8	<u>Z</u>	/ 88	£ ₹	p) (d	Cyanide / 9012A	i I	.	
Phone #: (978) 589-3358		FAX#:	(978) 5	89-328	2					8,	es	es	32 32	ate	tals 47(	tals 74	6/:	i I	.	
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RW0804-MSD	11	1200	25	GW	2			<u> </u>	X		X	,-								
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X 7 Days EMERGENCY			FULL			$\Box$	ASPC	ate	aorv	В										
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RUSH TAT is for FAX data	,		1 <u></u>	Specify)		ш		. ,	.,,											
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Accutest Job #:		
	N74914	
Accutest Quote #:		

С	lient Information		- 300 a.s	Facili	ty inforn	nation							Anal	ytical Ir	formatio	n		**************	greecenger a. v	egeneti engannoning	
Debra L. Mo	:Grath			Form	er Camp	Butne	r														
Name		•	Project Nam	e																	
2 Technolo	gy Park Drive													}					ĺ		
Address			Location															1			
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Send Report to: Phone #: (97)	8) 589-3358		FAX#:	(978) 5	89-3282	2					826(										
		T	Collection				Pi	eser	/atio	n	/s		l				1			1	
Field ID / Poi	int of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH HNO3	H2So4	None	VOCs / 8260B										
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Sample Custody must be documented below each time samples change p						oss	esion	n, including shed By:	g courier c	lelivery.	Date Tim			Received E	indiana Mariana Mar	n					
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Accutest Job #:	N74914	
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Client Information		[144] - Lucessa	Facili	ty Inforπ	ation	1						Analy	tical Info	rmation		1		181-18		
Debra L. McGrath		A 1000000		er Camp		,						·				ЭВ				ı
Name		Project Nan		or oump							_				1	01(				ı
2 Technology Park Drive						•					😤		'in/		0B	9/				ı
Address		Location									88		jeo,	>	501	(pa				ı
Westford MA	01886										%		gly	211	)/(	No				ı
City State	Zip	Project/PO	#;	0	9090-0	68				00	PCBs / 8081A	3151	/ Nitroglycerin/	/ 83	total	diss A	12A			1
Send Report to: Phone #: (978) 589-3358		FAX#:	(978) 5	89-3282	2					/ 8270C	Pesticides / F 8082	Herbicides / 8151	Explosives / I 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
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Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	支	NaOH HNO3	H2So4	None	SOOAS	Pes' 808,	Hert	Exp 833	Per	TAL 602	TAL / 60	Cya			
	8/2/04	0815	25	GW	2			L	X	х									<u> </u>	
RW0804-4710-MoriahRd	j		115	GW	2		_	_	X		X								<b>  </b>	
RW0804-4710-MoriahRd	F		35	GW	2	Ш	_		X			X							<b> </b>	
RW0804-4710-MoriahRd			10	GW	3			Ļ	X				Х						<b> </b>	
RW0804-4710-MorlahRd			70	GW	1			_	X					X					<b>_</b>	
RW0804-4710-MoriahRd			215	GW	1		×	4							X				$\vdash$	
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RW0804-4710-MoriahRd	V	V	25	GW	1		x	$\perp$	$\perp$								Х			<u> </u>
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21 Day Standard	Approve	d By:	NJ Red	duced			Com	ımeı	rcial	"A"										
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RUSH TAT Is for FAX data	_		Other	(Specify)							_									
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3				4	eal#		Р	reserved wi	 nere applies			On Ice:								
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Accutest Job #:		
	N74914	
Accutest Quote #:		

	Client Information			Facil	ty Inforn	nation							Anal	ytical Inf	ormation			,			
Debra l	McGrath			Form	er Camp	Butne	r													ł	
Name			Project Nam	e																	
	nology Park Drive																				
Address			Location																		
Westford	MA	01886																			
City	State	Zip	Project/PO#	E.	0	90904	200														
Send Report to	<u> </u>					3030-	300				8							]			
Phone #:	(978) 589-3358		FAX#:	(978) 5	89-328	2					/ 8260B										
			Collection		-		Pr	eser	vatio	on	· so						ļ				
Field ID	/ Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	로	NaOH	H2So4	None	VOCs										
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21 Day 9	Standard	Approved	i Bv:	NJ Red	iuced			Corr	mer	cial "	"A"										
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X 7 Days E	MERGËNCY			FULL C	LP			ASP (	Cate	gory	В										ĺ
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	Sampl		ust be docum	ented below	each time	sampl	es cha	ange	ooss	esio	n, includin	g courier de	elivery.								
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Accutest Job #:	
	N 74914
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Client Information	010000000000000000000000000000000000000	barrana and a second	- Eacili	ity Inform	ation	8080868	*******	881 5.	<del>, -</del> 1	5888889		Analy	tical Info	rmation						
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Name		Project Nam		ier Camp	Buttlet						_				_	5				ı
2 Technology Park Drive		i roject riam									4		<u>`</u> ⊆		89	)9/				ı
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City State	Zip	Project/PO#	!: 	0	9090-0	68				20	PCBs / 8081A	8151	/ Nitroglycerin/	/ 83;	total) \	disso	12A			
Send Report to: Phone #: (978) 589-3358		FAX#:	(978) 5	89-3282	2					/ 8270C	es / F	Herbicides / 8151	res / 32	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	/ 9012A			
		Collection	 I			Pr	eser	vati	on		S	icid	SSiv 783	흗	Me;	Me O	ige			
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	고	NaOH	H2So4	None	SVOCs	Pesticides / 8082	Herb	Explosives 8330/8332	Perc	TAL 6020	TAL / 602	Cyanide			
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RW0804-4709-MoriahRd /	1	1	245	GW	2				х		x									
RW0804-4709-MoriahRd >// F		1	SK	GW	2			T	x			Х								
RW0804-4709-MoriahRd			113	GW	3				х				Х							
RW0804-4709-MoriahRd			15	GW	1				x					X						
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Turnaround Information		1		800 S 888 A	Data	Deliv	erab	le In	form	ation				Comme	nts / Rem	arks				
21 Day Standard	Approved	d By:	NJ Red	duced			Con	ımeı	rcial "	'A"										
14 Day			X NJ Ful	ı		$\overline{\Box}$	Соп	ımeı	rcial '	'B"										
X 7 Days EMERGENCY			FULL			$\Box$	ASP													
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RUSH TAT is for FAX data			Other	(Specify)																
unless previously approved.																				
Sample Custody must be documented below each time samples change por						poss	sesio	n, includii shed By:	g courier d	elivery.	Date Time:			Received E	Bv:					
1 Law Beni 8/12/04/505/1 Feb Ex 2					·	Fe	DEX		08/1	3/04 @	10:30	2	•							
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3 Relinquished by Sampler:	Date Time:	· · · · · · · · · · · · · · · · · · ·	Received By: Seal #							Pr	eserved wh	lere applica			On Ice:	/_	,, 6			
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Accutest Job #:		 
	N74914	
Accutest Quote #:		

Client Inform	ation			Facili	ty Inform	nation		î.	1 4				Anal	ytical Info	rmation			-13013			I
Debra L. McGrath				Form	er Camp	Butne	•														
Name			Project Name	•																	
2 Technology Park Dr	ive																				<u> </u>
Address	•	4000	Location																		•
Westford MA		1886	Project/PO#	•						$\dashv$											
City Stat	e Zij	P	riojecuro #	•	0	9090-0	68			- 1											
Send Report to:										$\dashv$	8260B										
Phone #: (978) 589-3358	8		FAX#:	(978) 5	89-3282	2					326										
· · · · · · · · · · · · · · · · · · ·		,	Collection				Pres	serva	atio	$\overline{\Box}$	~										
	-		Concodon	Sampled		# of	-				VOCs										
Field ID / Point of Collec	tion	Date	Time	By	Matrix	bottles	보물	HNO3	H2So4	None	>										
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				Sampled		# of	고	동물	H2So4	None	8									, ,	
Field ID / Point		Date	Time	By	Matrix	bottles		2 3	모	욷	<del>                                     </del>			<b>.</b>					<del> </del>		
RW0804-564-Beth	nanyChurch	8/12/04	1045	<u> 25 </u>	GW	3	X	_	┸	L	Х										
	-14	1									<u> </u>										
	,																				
		<u> </u>					1			<b>-</b>											
, , , , , , , , , , , , , , , , , , ,	•				<u> </u>		+	+	+				,	<del> </del>	<del> </del>				$\vdash$		
						-			+-						<u> </u>	-	<u> </u>				
					ļ	<u> </u>	$\perp$	_	$\bot$									<u> </u>	-		
		, •																			
																			1		
							$\Box$			П											
						<u> </u>	+	+	+	$\vdash$											
		150564660000000			Brader 1 mg1	<u> </u>	<u></u>	<u> </u>	<u></u>	<u>i</u>				<u> </u>		<u> </u>	<u> </u>		<u> </u>	لـــــــــا	
Turna	round Information	۱				Data	Deliv	erabl	le Inf	orm	ation				Comme	ents / Rem	narks				
21 Day Standar	d	Approve	d By:	NJ Red	duced			Com	nmer	cial '	'A"										
14 Day				X NJ Ful	Ī			Соп	mer	cial '	'B"										
<del>   </del>	ENOV			=			H														
X 7 Days EMERG				FULL	JLP		$\vdash$	ASP (	Categ	gory	В										
Other	(Days)			Disk D	eliverable	•		State	e For	ms											
RUSH TAT is for FA	X data			Other (	Specify)																
unless previously a													,								
	Sample Custody must be document					e sampl	es ch	ange (	poss	esio	n, including Ished By:	courier o	lelivery.	Date Time			Received	BV:			
Relipodished by Sampler: Date Time:				Received By	FED	Ex			, rei	mqui	FED E			ارعما	21.16	0 10. 80	2	-y.			
Relinguished by Samp	7 7440	1   Received By	:				Rei	inqui	Shed By:			Date Time	3/04 €	-10.50	Received	Бу:					
3		3					4		-						4						
Relinquished by Samp		Received By	;				Sea	al#		Pı	eserved w	ere applica	1		On Ice:	/					
5		1		5													<i>'</i>	2.4			

Accutest Job#:	N74914
Accutest Quote #:	

Client Information		Facili	ty Inform	nation					30000 V 1700.		Anal	ytical Info	rmation		The Longiery Jef			
Debra L. McGrath		Form	er Camp	Butne	r										0B			
Name 2 Technology Park Drive	Project Nam	e								1A /		in/		0B /	TAL Metals (dissolved) / 6010B / 6020 / 7470A			
Address	Location									88		cer	- I	50	(þé			
Westford MA 01886	D:4/DO 4	t.								1 %		gly	211	)/6	olve			
City State Zip	Project/PO#	r:	0	9090-0	)68				ည	Pesticides / PCBs / 8081A 8082	Herbicides / 8151	/ Nitroglycerin/	Perchlorates / 8321M	TAL Metals (total) / 6010B 6020 / 7470A	dissı A	Cyanide / 9012A		
Send Report to:		/===\		_					327	J. 1	3/9	s / I	ies	ls (1 A07	ls (4 170	.06		
Phone #: (978) 589-3358	FAX #:		89-3282	2					SVOCs / 8270C	des	ides	ive:	orat	TAL Metals (t 6020 / 7470A	eta 77	<u>e</u>		
	Collection	i			$\vdash$	eser		_	ő	stici 22	bic	solo 30/8	ly5.	∑ (S	_ M	anić	:	
Field ID / Point of Collection	Time	Sampled By	Matrix	# of bottles	호	NaOH HNO3	H2So4	None	S S	Pes 808	Hei	Explosives / 8330/8332	Per	TAI 602	TAI / 60	کُ		 
RW0804-FieldDup3	4 1300	23	GW	2				x	X									
RW0804-FieldDup3		<b>B</b>	GW	2				x		x								
RW0804-FieldDup3		28	GW	2				x			X							
RW0804-FieldDup3 } づらし		25	GW	3				X				X						
RW0804-FieldDup3		2	GW	1				x					Х					
RW0804-FieldDup3		25	GW	1		>	℄							X				
RW0804-FieldDup3			GW	1		)	<u> </u>								X			
RW0804-FieldDup3	V	213	GW	1		x	$\perp$									Х		
0			0				$\perp$											
					ļ		╙											
						$\bot$												
Turnaround Information				Data	Deliv	/erabl	le In	form	ation	.46-48			Comme	nts / Rem	arks			50,000,000,000,000 
21 Day Standard Appro	ved By:	NJ Red	luced			Com	mei	rcial "	Ά"									
14 Day		X NJ Full				Com	mer	rcial "	'B''									
X 7 Days EMERGENCY		FULL C	LP			ASP (	Cate	gory	В									
Other (Days)		Disk Do	eliverable			State	e Fo	rms										
RUSH TAT is for FAX data		Other (	Specify)							_								
unless previously approved.													··· 1	Signatura de la composição de la composição de la composição de la composição de la composição de la composição	Sec.	Terroria Terroria de California	isasasi saasasasas	
Sample Custoo Relinedaished by Sampler:  Date / Im	Received By		e sampl	es ch	ange	poss [Re	sesio:	n, includi: shed By:	ng courier d		Date Time:			Received B	ly:	<u> Şeriye</u>		
(Son - 18/12	04 1438	1 FE	DEX				2		FZ	DEX		08/13/	04 @1C	):36	2			
Relinquished by Sampler: Date Tim	t T	Received By					Re	ilnqui	shed By:			Date Time:			Received B	ly:		
Relinquished by Sampler: Date Tim	:	Received By	:				Se	al#		Pr	eserved wh	erë applica			On Ice:			
5	5								121			VK	-08/13/	104	ί	<u> </u>	<u>с</u>	 

Accutest Job #:	N74514	
Accutest Quote #:		

<u></u>																			
Client Information	Facility Information									Anal	ytical Info	rmation		eria di	<b>.</b>				
Debra L. McGrath	Former Camp Butner																		
lame	Project Name																		
2 Technology Park Drive		<u></u>							4										
Address Westford MA	01886	Location																	
	Zip	Project/PO#							-										
J,	09090-068							m											
Send Report to:								] 56											
Phone #: (978) 589-3358	FAX #: (978) 589-3282							8260B			:								
		Collection			Prese		erva	ition											
			Sampled		# of	۶ ا پر ا	HNO3	H2So4	VOCs			<u> </u>							
Field ID / Point of Collection	Date	Time	By	Matrix	bottles		量	H2S			ļ								
RWB0804-FieldDup3/5	8/12/04	1255	13	GW	3	x	Ш		X										
											<u>"</u>								
							+		† · · · · · · · · · · · · · · · · · · ·										
	-					$\vdash$	+	+											
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							$\perp \downarrow$	<u> </u>											
							11												
							$\Box$			ŀ									
Turnaround Information					Data	Deliver	able	Infort	nation				Comme	nts / Rem	arks				
21 Day Standard	NJ Reduced Commercial						I "A"												
			X NJ Full Commercial																
14 Day																			
X 7 Days EMERGENCY	FULL CLPASP Category																		
Other(Days)	Disk Deliverable State Forms						•												
RUSH TAT is for FAX data	Other (Specify)																		
unless previously approved.																			
Sample Custody must be documented below each time samples change possesion, including a Relinquished by Sappler:   Date Time   Received By:   Relinquished By:   Relinquished By:											delivery.	Date Time:	_		Received E	Эу:	ma sensiamang.		
Han Ben	Date Times 8/12/00/1440			1 FED EX					2 FEDEX			08/13/04@10:30			2				
elinquished by Sampler Date Time:			Received By:						ulshed By:	<u> </u>		Date Time:			Received By:				
3 Relinguished by Sampler: Date Time:			3 4					4 Seal#			roconyed and				On loe:				
Relinquished by Sampler:	Received By	1					Preserved where applica Unice: 2.4°						•						
5	1		5				1									<u>~</u> ' '			

## CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B 2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74514
Accutest Quote #:	

Client Information			Facili	ity Inforn	nation						650 da 1950 da 1	Anal	ytical Info	ormation				<u> 1888 (1887 - 1917 - 1</u>	ann seemann sann	odoci, jeodovi svet
Debra L. McGrath			Form	er Camp	Butne	r													, ,	
Name		Project Name	1																	
2 Technology Park Drive												1							ı	
Address		Location																	ı	
	01886																		ı	
City State 2	Zip	Project/PO #:		0	9090-0	68				m										
Send Report to: Phone #: <u>(978) 589-3358</u>		FAX#:	(978) \$	589-3282	2					8260B										
		Collection			Í	Pr	eser	vatio	n										ı	
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	로	NaOH HNOB	H2So4	None	VOCs										
		1155	25	GW	3	x				Х										
@ TRIP BLANK -16 8/12/14, 061	ر کھ						_	$\perp$				-								
					<u> </u>	$\sqcup$	_	$\bot$	$\sqcup$			<u> </u>								
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						$\Box$	+	+	$\vdash$											
	-					1 1		+	Н											
							1					edonos.	20000							
Turnaround Information					Data	Deliv	erabi	e Inf	orm	ation				Comme	nts / Rem	arks				
21 Day Standard	Approved	I Ву:	NJ Red	duced			Com	merc	cial "	'A"		<b>⊕</b> ₩ <b>0</b> 0	ED 70 (	COC. PE	NDING	REVIE	40) لىر	8/13/04	)	
14 Day			X NJ Ful	ı			Com	merc	cial "	'B''								,		
X 7 Days EMERGENCY			FULL (	CLP			ASP (	Cateo	зогу	В										
Other(Days)			Disk D	eliverable			State	e For	ms											
RUSH TAT is for FAX data			Other	(Specify)					_											
unless previously approved.											·									
Sample	Custody m	ust be docum	ented below	v each tim	e sampl	es cha	inge	poss	esio	n, includin	g courier c	delivery.					illebis, Javas	77 (00000000000000000000000000000000000		
Relinguished by Sampler:	Date Time:	0	Received By	/: <u></u>				Rel	inqui	Ished By:	-	-	Date Time:			Received B	y:			
Relinquisped by Sampler	8)12/0	4 1940	1 Received By	r-ED	乙			2 Rel	inqui	FCD <u>†</u> Ished By:	χ		Og /13/	64 @10.	50	2 Received B	y:			
3			3					4								4				
	Date Time:		Received By	<i>r</i> :				Sea	ıl#	•	Pi	reserved wi	ere applica	ı			104.	P		
5			5													<u> </u>	2.4"			

TRS

WELL P	WELL PURGE AND SAMPLING RECORD									
ļ	Date:	8-9-04		Well	I.D. <u>RW 080</u>	4-NCNG				
Property (	Owner:	NC NATO	MAR GUAIZ	<b>9</b> .		···				
Address:	•	00 HO	P.>			l				
	Location:	PUMP HOUS	= - BLDGE		- AT WELL	<i></i>				
Sampling		L. BENJAMIN S	. SMIDE R	LINERMORE E. 1	Mc COZMICK					
Well Seria	al Number	07705		Well Condition	NEW					
GPS data	R1 2060	77= 803556	<u> </u>	Weather Conditions	SUNNY					
Static Wa	ter Level	N/A	<del></del>	Reference Point		<u> </u>				
Well Dep	th Sounding	N/A	]	Reference Point		·				
Well Casi	ng Diameter	N/A								
			,							
Purging N	Method:	RUNNING S	7160=							
Pumping	Rate:	N/A	Pum	p Depth: N/A						
Sampling	Method:									
System M	lodifications fo	or Sampling								
Time	Ph	Conductivity	Furbidity	D.O	Temp.	ORP				
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV				
	+/-0.2	+/- 3%	+/- 16%	+/-10%	+/- 1°C	+/- 10mV				
1157	7.03	PH 0.00	117.5	8.53	20.07	273.5				
1203	6.84	0.00	34.0	7.95	20.48	425.2				
1208	7.15	0.00	245.1	9.60	18.50	281.0				
1211	7.11	0.00	1915.0	9.08	20,8	308.5				
1216	7.15	0.00	1927.0	8.66	21.6	300.0				
	•	:	•	<u>:</u>						
System D	escription: <	Marca Puzzini	<i>a</i> (52)	MAN HEELM . C						
1	,	merely , and Me	n E 1020	DAM RECOUNT	R NOTED	C 1034.				
WATER	cueAR (	e 1038,								
Method o	f Purge Water	Disposal: DAAN	TO GROUND							
Comment	s:									

STARGED CALIBRATION @ 1030. DIFFICULTY CALIBRATING TURBIDITY @ 1115. PHONE CONVERSATION WITH SCOTT ROSS OF ENSIR TO DISCUSS CALIBRATION DIFFICULTIES. USE DEIONIZED WATER FOR O NTU CALIBRATION LIFE OF STANDARD.

1150 - AFTER PURGING FOR OVER 1.5 HOURS, DECISION MADE TO STABILIZE REGARDLESS OF PROBLEMS CALIBRATING TURBIDITY.

1216 - STABILIZATION COMPLETE, TUZBIDITY READINGS OUT OF TOLERANCE INDICATING A DROBLEM WITH METER OF PROBE. WATER IS CLEAR.

WELL I		SAMPLING RECO	RD	XX 1	tro Divers	652 221
	Date:	8-9-04		Wel	11.D. <u>KMO80</u>	A- NENG 221
Property	Owner:					_
Address:		(057 / 1	REVIEW DR			
Sampling	Location:	WELL LEF		My (SPIGOT	AT WELL	)
Sampling	Team:	L. BENJAMIN	S. SMM K	LIVERMORE	F. McCORN	AICK J BADE
Well Seri	al Number	,	Wel	l Condition	6000	
GPS data	206800	6E 888444	-N Wea	ther Conditions	50144	
Static Wa	iter Level	N/A	Refe	erence Point		
Well Dep	th Sounding	N/A	Refe	erence Point		
Well Cas	ing Diameter	N/A				
Purging I		RUNIAL SPI	GOT			
Pumping		N/A	Pump De	epth: N/A		
Sampling						
CONTRACTOR OF THE PERSON NAMED IN	Iodifications fo	Manager and the same of the sa				
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV
	+/- 0.2	+/- 3%	+/- 10%	+/=10%	+/- 1°C	+/-10mV
1330			_			
	5.16	0.00	327.7	5.28	72.07	380.8
1334	6.79	0,00	1955.6		23.28	394.7
1337	6-61	0.00	1941.7	4.82	22.21	448.4
1340	6.6	0.00	-34.8	4.86	21.75	484.0
1344	6.88	0.00	-46.5	4.88	21.99	492.2
System D	escription: -					
by sterm 2	escription.	TURBIDITY OF	P ASIGAL TO	OF MAG	CICTALISK	STARTED
SAMA	424 VIDE	Ls @ 1347.		2 - 1116	MCHONING.	
	<b>V</b> O(	-, C 197/.				
Method o	f Purge Water	Disposal: DRA	TO GROUND			
Comment	-	·	T (17) (1/2) (1/2)			

STARTED PUZGING @ 1305. STOPPED PUZGING @ 1345

WELL P	URGE AND S	SAMPLING RECOR	RD.		_	
	Date:	8-9-04		Wel	H.D. <u>RWOB</u>	04-653
1					<i>3</i> T	1 01/
Property						_
Address:		653 LAX	EVIEW DR			
	Location:	WELL RIGH	5 OF DRING	WAY (57160	T AT WELL	2
Sampling		L. BENJAMIN	3 SMITH Z.	LINERMOZE,	E. Mc Coza	LICK J. BASS
Well Seri	al Number			ll Condition '	4003	
GPS data	286800	7E 888443	N Wes	ather Conditions	SULVY	
Static Wa	iter Level	N/A	Ref	erence Point		
Well Dep	th Sounding	N/A	Ref	erence Point		
Well Cas	ing Diameter	N/A				
Purging N		12 UNING S	1607			
Pumping		N/A	Pump D	epth: N/A		
Sampling						
THE RESIDENCE OF THE PARTY OF T	lodifications fo	of the Market of the American Principles of the Parket of				
Time	Ph	Conductivity	Turbidity	D.O. '	Temp.	QRP
1	(Std. Units)	(micro-ohmstem)	(NTU)	(mg/l)	(°C)	MV
)		20/				
	+/= 0.2	+/- 3%	+/-10%	+/-10%	+/- L°C	+/- 10mV
1453	6.5	0.00	156.0	(243	16.8	408
1456	5-52-5.5		13.9	4.84	16.6	226.4
1458	5.50	0.028	17.3	5.51	16.02	239.2
1502	5.41	0.00	8.9	3.94	16.09	268.4
1505	5.6	0.90	117.0	4,37	16.19	315.8
1509	5.65	0.00	1505	4.39	16.57	642.2
System D	escription:	MARTED PURGIN	4 C 1440.	STOP PUR	6NB (Q. 15	10
1		MASS PURGIA	4 C 1440.			· ·
Non:	ערופוצונוד	STILL NUT REA	DING CORRECTL	9.		
1	f Purge Water I					····
Comment	_	- UKIN .	1 TO GROUNS			

WELL P	VELL PURGE AND SAMPLING RECORD									
	Date:	8-9-04		We	III.D. <u>653</u>	LAIGNEW				
		,			RUO	800-658				
Property	Owner:									
Address:		658 LAI	LEVIEN	,						
	Location:	Way 10	LEST OF	HOUSE (SPICE	DOT AT WEL					
Sampling	Team:	L. B5 15 AM/V	S SMM	P. LIVERMORA	E McCoz	MICK J BADS				
Well Seri	al Number		, W	ell Condition	600					
	20684411		<i>I</i>	eather Conditions	YNKOS					
Static Wa	ter Level	N/A		eference Point						
Well Dep	th Sounding	N/A	Re	eference Point						
Well Casi	ing Diameter	N/A								
		7								
Purging N		DRANJ TO GI	ROUND RUN	אוגע <u>לאוגט לאוגע</u> Depth: N/A		<del></del>				
Pumping		N/A	Pump :	Depth: N/A						
Sampling										
CO-Chicago Company and Company	lodifications fo	A STATE OF THE PARTY OF THE PAR								
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP				
t in the	(Std. Units)	(miero-ohms/cm)	(NTU)	(mg/l)	(°C)	MV				
	1,00	17.20/	/ 1500/	1000	£ 10%	1/ 10-37				
11 111	1-0.2	+/- 3%	+/- 10%	+/-10%	+/- L°C	#/- 10mV 182,6				
10:16		0.139	145.4	392	16.47					
10.10	6.36	0.130	1000	2.40	15.99	122.6				
16:23	4.35	0.134	367,6	201	16.13	281.5				
16:26	4.38	0.00	304.8	3.64	16.06	22/15				
			· · · · · · · · · · · · · · · · · · ·	,						
System D	escription: 4	TARTER PURGING	0 11.0	/- 22m 2.0	26.26 0 11	77				
	3	1026,29	@ 1600. S	5107750 PUR	4/24 6 16	21				
	CD 771 : :	D'				<u> </u>				
ı	f Purge Water	Disposal: Debal	TO GROUND			. 1				
Comment	:S:									

WELL P		SAMPLING RECOR	KD.		_					
	Date:	8-9-04		Wel	11.D. RWOE	04-3536				
Property (	Property Owner:									
Address:		3536	FUETCHEZS t	JAY						
Sampling	ampling Location: Wall BEHIND HOUSE (SPIGOT AS WELL)									
Sampling	Team:	L. BELJAMIN	S SMITH P	LNERMORE	E Mc Cozario	CK J. BADEN				
Well Seria	al Number		We	l Condition '	GOOD					
GPS data	20110			ther Conditions	SUNNY					
Static Wa		N/A		erence Point						
_	th Sounding	N/A	Ref	erence Point						
Well Casi	ng Diameter	N/A								
Pumping Sampling	Purging Method:  Pumping Rate:  N/A  Pump Depth:  N/A  Pump Depth:  N/A									
CONTRACTOR SECTION STREET	lodifications fo		The same of the sa		-	OSD -				
Time	Ph" (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp.	ORP MV				
	(Std. Ollis)	(micro-dums/cm)	(1010)	(ang/1)	(.C)	NLV				
	+/- 0.2	+/= 3%a	+/- 10%	+/=10%	+/- 1°C	+/- 10mV				
17:16	5 78	0.00	108.7	4:63	16.97	224.8				
1721	576	0.00	7.40.8	1 105	15,85	7789				
1715	5,84	D. 048	275.5	5.23	15.95	214.0				
1729	6.05	0.00	491.6	4.02	17,3	044.3				
				:						
System D	escription: /-	705 START P	U24126 ST	op tarear	16 @ 173	0				
Method of Comment	f Purge Water I s:	Disposal: Di2An A	70 GROVN)							

130 EX PUMP DESTH

WELL PURGE AND SAMPLING RECORD									
	Date:	8/10/04		W	ell I.D. RWOSO	4-CAMP BARhar			
1									
Property	Owner:	Canp	BARham						
Address:		BARha	M-EASON	Road					
Sampling	Location:	WELL HOUSE	BEGDIZE GAT	7 (N T)	= RIGHT OF	6ATE)			
Sampling	Team:		e, LARRY BO	miamin, 5	THEEY SMI	1771			
Well Seri	al Number								
GPS data	207043	75 883108	N W	eather Condition	s sunny				
Static Wa	iter Level	N/A	Re	ference Point					
Well Dep	th Sounding	N/A	Re	ference Point					
Well Cas	ing Diameter	N/A							
		2							
Purging N		N/A S	21607		- 70				
Pumping		N/A	Pump I	Depth: N/A					
Sampling									
AND RESIDENCE OF THE PERSON ASSESSMENT	Iodifications fo								
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP			
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV			
	1/02	+/- 3%	17:100/	1,000	7 190	1.04574			
8:42	+/-0.2	0.00	+/-10% 2902.3	4.97	+/-1°C	+/- 10mV 242.8			
8:45	6.84 6.95	0.00	2902.7	5.27	16.44				
8:48	4.98	0.367	638.9	4.95	15.99	250.0			
8:54	7.04	0.000	465.h		16.75	258.9			
0.77	1.09	0.000	0000	9,30	10,73	J58, /			
				<u>'</u>					
Cyrotana D				1	) 0				
System D	escription:	ART PURGING G	7:20am 5/6	p purant c	8:55 pm				
Ch	2240.	FRUM 6720 TO	2610	,					
	ג גטונוייוע	764 0120 TO	0042						
Method o	f Purge Water I	Disposal:							
Comment	_	I JAPA	70 GRUUND						
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									

DAY 2: STILL 14WING DIFFICULTY CALIBRATING TURBIDITY FOR
THE WATER OVALTY METER. TURBIDITY READINGS REFLECT
THIS, HOWEVER, WATER IS CLEAR.

WELL P	URGE AND S	SAMPLING RECOR	RD.			_			
ŀ	Date: 8/10/04 Well I.D. PW0804-E130N								
1						-			
Property	Owner:	Camp En							
Address:		BARHAM -	EMBON Rd.						
	Location:	GP140- 124175		BEFORE PA	essure Th	ايد			
Sampling		LARRY BENJAM	IN, RAY CIVE	ERMORE, 81.	ACEY SMI	THE			
	al Number	/		ell Condition	Leon				
GPS data	206944	7 <u>E 883818</u> 1	We	eather Conditions	SUNN	<u> </u>			
Static Wa	ter Level	N/A	Re	ference Point					
Well Dep	th Sounding	N/A	Re	ference Point					
Well Cas	ing Diameter	N/A							
		カ							
Purging N	Method:	KUNNING SPIGO	7						
Pumping	Rate:	N/A	Pump I	Depth: N/A					
Sampling									
CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	lodifications fo				No. 200 Per la Contraction de				
Time	Ph Ph	Conductivity	Turbidity	D.O.	Temp.	ORP			
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l) .	(°C)	MV .			
	1/00	+/= 3%	/ T00/	100/	1, 190	10-14			
10:26	+/-0.2	0.272	+/- 10%	+/-10%	+/1°C	+/- I0mV			
-	6.67	0.00	702.4	6.48	16.82	703.6			
10:29			208.4	4.34	16.87	224.7			
10:35	4.58	0.139	41.4	6.14	16.66	234,5			
10.30	656	0.139	100.2	6.31	16.65	249.2			
G . 7			0 1-1-0 110			<u> </u>			
System D	escription: 5	THRET PURGING O	@ 10:12 AM.	STOP PURGING	@ 10:35				
l				/					
Method o	f Purge Water	Dienosal:							
Comment	_	Disposar. Dizani	TO GROUND						
Common	J		<u>,                                      </u>						

WELL P		SAMPLING RECO	RD.			
i	Date: 🗲	3/10/04		We	ell I.D. <u>Ruos</u>	304-4051
			•			•
Property		· · · · · · · · · · · · · · · · · · ·	/ 12 33			
Address:			EP.			
	Location:	571607 Ar	CONCRETE		PONT OF 14	,
Sampling		CARPY Benjamin	<del></del>	emarc, STA	/	<u></u>
		6 14'05. 870"		ell Condition	( CADOD	
GPS data	/	80 44' 57. 269		eather Conditions	<u>SUMM</u>	
Static Wa		N/A		ference Point		
	th Sounding	N/A	Re	ference Point		
Well Cas	ing Diameter	N/A				
		D				
Purging N		RUSSING SP	16,07			
Pumping		N/A	Pump I	Depth: N/A		
Sampling						
The second secon	lodifications fo					when the second of the second of the
Time	Ph"	Conductivity	Turbidity	D.O.	Temp.	ORP
1	(Std. Units)	(miero-ohms/cm)	(NTU)	(mg/l)	(°C)	MV
	+/-0.2	+/- 3%	+/- 10%	+/-10%a	+/- 1°C	+/- 10mV
1028	7.63	0.318	- 8.9	1.72	20.10	166.4
1235 1235		0.00	22,1	2.97	21:07	188.4
<del>/                                    </del>	7.6	1				1718
1238	7.81	0.00	1130	8.98	20.58	171.8
1242	7.75	0,00	3047	8.77	21.63	189.6
2 . 7				<u> </u> :		
System D	escription: 5	TART PHRUNGE	12:17 5701	PURGING E	12:50	
			ν .			
Noite	. HRST Th	is D.O. READIN	GS APPEAR	ACOZRECT. K	) 1260 62	NICE 21 21
					1970 102	NIM OC SEVE
l						
Method o	f Purge Water 1	Dienosal:	1 TO GROUND			

WELL P	WELL PURGE AND SAMPLING RECORD										
	Date:	8/10/04		We	II I.D. <u>Rwoso</u>	4-4149					
		/				,					
Property											
Address:		4149 RANGE	172								
	Location:	RW0804-414		- 12 570/1							
Sampling											
	al Number										
GPS data	data 36° 14' 34, 542" N 78° 44' 36.844" Weather Conditions SUNNI										
Static Wa		N/A	Re	ference Point							
	th Sounding	N/A	Re	ference Point							
Well Cas	ing Diameter	N/A									
		2									
Purging N		RUSHING S	71605								
Pumping		N/A	Pump I	epth: N/A							
Sampling											
THE PROPERTY OF THE PARTY OF TH	Iodifications fo										
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP					
	(Std. Units)	(miero-ohms/em)	(NTU)	(mg/l)	(°C)	MV					
	1/02	±/-29/	7 1007	11000	100	III/ IVV-TV					
1345	7.04	0,00	+/-10% -161,4	+/-10%	+/- I°C	+/- 10mV					
1348				291	17.74	200.5					
· 7 V	6,79	0,00	0969.4	5,22	18.78	205,3					
1352	7:14		13/5.5	3.00	16.72	2/6,2					
1355	7,22	0.248	192,8	5,00	17.65	20814					
						ŀ					
System D	System Description: START PURSING @ 1330, STOP FURGING @ 1355,										
	, 7										
Method o	f Purge Water I	Disposal:				<del></del>					
Comment	_	Disposar.									
Comment	J										

WELL P	WELL PURGE AND SAMPLING RECORD									
Date: 8/10/04 Well I.D. RU0304-191										
		•				•				
Property	Owner:									
Address:	224	191 PALCON								
	Location:	LARRY BENSAMII	v, RAJ UVE	ermore, STACE	y SMITH					
Sampling	Team: 4	WELL TO L	EFF OF I	DRINE WAY	<b>,</b>					
	al Number			Well Condition	[2000]					
GPS data	36°15'16.	766"N 78°47'	38.583"W	Weather Conditions	SUNNY					
Static Wa	iter Level	N/A		Reference Point						
Well Dep	th Sounding	N/A	·	Reference Point						
Well Cas	ing Diameter	N/A								
1										
Purging N	Method:	RUNNING S	71605							
Pumping		N/A	Pum	p Depth: N/A						
Sampling	Method:									
System M	Iodifications fo	or Sampling								
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP				
	(Std. Units)	(micro-ohms/cm)	(NTU) =	(mg/l)	(°C)	MV				
		4 20								
	+/- 0.2	+/- 3%	+/- 10%	+/-10%	+/= L°C	+/=10mV				
1512	7.78	NO454 0.454	703,9	2.40	16.70	19.1				
1515	7.70	0,434	96.4	2.92	17,29	26.3				
1518	7,69	0.433	112.0	2.96	16.04	25,0				
15 20	7.67	0.824	48,5	0.70	16,00	34.5				
<u></u> _										
System D	escription: 57	MET PREGING @ 144	55 STOP	PRECINO @ 152	0					
	~ p	143	, , ,	,						
<u>.</u>										
	f Purge Water	Disposal: Defini	73 GROUN	>						
Comment	ts:									

WELL P	URGE AND S	SAMPLING RECO	RD.					
	Date:	8/10/04		We	III.D. Puog	A- 750		
						• -		
Property	Owner:			1 7/2 6/1		/		
Address:			Werden 75			rd		
	Location:		SIDE BAZN					
Sampling	Team:	LARRY BONION	DIN, PAY CIVE	annore, 5Th	KEY SMITH	7		
	al Number							
		.050"N 78045	155.643"WWE	eather Conditions	SUNNY			
Static Water Level N/A Reference Point								
Well Dep	th Sounding	N/A	Re	ference Point				
Well Casing Diameter N/A								
		_						
Purging N		RUSSING SPIG	07					
	Pumping Rate: N/A Pump Depth: N/A							
Sampling								
AND THE PERSON NAMED IN COLUMN 2 AND	Iodifications fo							
Time	Ph	Conductivity	Türbidity	D.O.	Temp.	ORP		
	(Std. Umits)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV		
		+/- 3%°	1.00/	/ 100/	( T0C)	10-7		
سران ا	+/= 0.2		756.7	#/-10% - 2.21	+/- I°C	+/- 10mV		
1645	8,07	0.953		<del>+</del>	10.78	67.1		
1648	8.04	0,495	190.5	2.41	16.48	76.5		
1652	8.03	0,00	142.5	2.85	llas9	85.7		
1656	8.09	0.00	13.6	6.56	16-61	741		
				:				
				;		·		
System D	escription:	TART PURBING C	1630, 21	OF PURBING (	@1700_	•		
	•	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-				
Mathad -	f Purge Water	Disposal				<del> </del>		
Comment	_	Disposal: DZ47	70 GROUND					
• COUNTIEU	o.							

WELL PURGE AND S	SAMPLING RECO	RD			26
Date: _	8/11/04		We	ell I.D. <u>PU68</u>	RA-714578
	, ,		~	GLA	DUP 2
Property Owner:			· · · · · · · · · · · · · · · · · · ·		_
Address:	4578 EZZLE				
Sampling Location:	RW0804-45			2 14 CZANL	SPACE
Sampling Team:	LAMIRY BENJAMI	N RAY LIVER	MARE, STAC		
Well Serial Number 32	RL		ell Condition	COOD	
GPS data 36° 16'20.	360"N 78°4	7'36.165"N WE	ather Conditions	SUNNY	
Static Water Level	N/A:		ference Point		
Well Depth Sounding	N/A	Re	ference Point		
Well Casing Diameter	N/A				
	D.				
Purging Method:	KUNNING SPIGOT				
Pumping Rate:	N/A	Pump I	Depth: N/A		
Sampling Method:					
System Modifications for		4 55		***	The second second second
Time Ph	Conductivity	Turbidity	D.O.	Temp.	ORP
(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV
) +/- 0:2	+/- 3%	+/- 10%	+/-1.0%	+/-1°C	+/- 10mV
1905 6.01	0.096	54.6	6.20	17.07	201.4
0907 10.03	0.000	527.5	6.24	16.09	722.2
0909 2600	0.083	146.0	6156	15,37	226.9
6.00	0,000	117000	0.50	10101	1
System Description:	That Bulling A	1815 5-0	DID have DO	201)	
System Description: 57	MET FURSING @	10/2, 3/0/	PURELING CU	,00.	
		/			
Method of Purge Water	Disposal: DZA	to GROUND			
Comments: P-M		9~-000			

DAY 3: STILL HAVING DIFFICULTY CALIBRATING TUZZBIDITY. TUZZBIDITY
READINGS REFLECT THIS. WATER IS CLEAR

WELL I	PURGE AND S	SAMPLING RECO	RD.			
	Date:	8/11/04		Wel	I.D. RWO	804-4535
				•	,	
Property			- h			
Address:		4535 YILLE				
	g Location:	PW0804-453		GOT AS WER	4 1203515	
Sampling		LARRY BEN JAMIL	V, RAY LIVE	amore, STACEY:	SMITH.	
	ial Number			Well Condition	6000	
	36°15'18'		01.8" W	Weather Conditions	SUNNY	
Static Water Level		N/A:		Reference Point		
	oth Sounding	N/A		Reference Point		
Well Cas	ing Diameter	N/A				
	~	D				
Purging I		RUNNING	5P160T			<del></del>
Pumping		N/A	Pun	np Depth: N/A		
	Method:					
The second second second second	Modifications for	The second secon		The state of the s		
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP
(	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV
	+/-0,2	+/- 3%	+/- 10%.	+/-10%	+/- 1°C	-/ 10-3V
1025	5.46	0.082	127.9	3.35	16.73	+/-10mV 1
10.28	5.48	0.047	101.6	2.11		202.9
1030	5.77	0.00	1563,2		10.21	
1000	7.//	2.00	1503,2	212	16.33	177.1
					·	:
-						
Carata D	\			1:		<u></u>
System D	escription: 57	FART PURGING G	1005. 5	TOP PURBING @	1032.	
			,	/ /		
Method o	of Purge Water	Disposal:	N 70 GRO	CL.1:		
	ts: CLOUPY		~ 10 9120			
		.,,,,,,				

WELL P	URGE AND	SAMPLING RECO	RD		_		
	Date:	8/11/04		We	11 I.D. <u>Zwo</u>	804-4553	
Property	Oumer:	, ,					
Address:		4553 UZZE	· Kd	4.			
	Location:			2001 ×477			
Sampling Location: SPIGOT AT WELL IN FRONT YAZD  Sampling Team: UARAY BENJAMIN, RAY LIVERMORE, STACEY SMITH							
	al Number	/	We	ell Condition	6000		
GPS data	36° 15'2	9"N 780 47	1 50,020" WW	eather Conditions	SKNNY		
	iter Level	N/A		ference Point			
Well Dep	th Sounding	N/A	Re	ference Point			
Well Casing Diameter N/A							
1		2					
Purging Method: Rowling 57150							
^ ~	Pumping Rate: N/A Pump Depth: N/A						
_ ^ ~	Method:		·				
S. Policial State of the Company	Iodifications fo	For Commission and Co					
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP	
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV	
	+/- 0.2	+/- 3%	+/- 10%	+/-10%	+/- I°C	+/- 10mV	
1108	7.51	0,272	138,7	2.71	16.41	93.3	
1112	7.64	0.00	892.9	3,99	17.69	14515	
1115	7.78	0.00	8.8	2,99	16.03	121.8	
1117	7.78	0.146	39.7	1.94	15.89	104.0	
					,		
				:			
System D	escription:	ARTED PURENT G	into STA	P PIDEINI A	1117		
		The Pure 400 E	, 1090.	1 424100	, , , ,		
1							
N 641 1	CD WAS TYTE	Diamond.					
	f Purge Water	Disposal: Dan	TO GROUND				
Comment	S:						

	Date: _	SAMPLING RECOR <u>8/11/04</u>		We	ell I.D. RUO	804-4573
Property	Oxemer			·		
Address:		4513 UNIE	Poud			
	Location:	SPIGOT AT	REAL OF	House No	57165 45	Trian In G
Sampling	,	CARRY BENJAMIN		MERE STACE		Y,
	ial Number			ell Condition	6000	
GPS data	3/10/15/2	9.140"N 780.	47' 42.027"WW	eather Conditions		
Static Wa	ater Level	N/A	Re	eference Point		
Well Dep	th Sounding	N/A	Re	eference Point		
Well Cas	ing Diameter	N/A				
		7				
Purging N		KUJNING 52	1607			
Pumping		N/A	Pump [	Depth: N/A		
	Method:					
DATE OF THE PARTY	Modifications for				F	755.
l'ime	Ph (Std Livite)	Conductivity (micro-ohms/cm)	Turbidity	D.O.	Temp.	ORP MV
	(Std. Units)	(Infero-offins/ent)	:(NTU)	(mg/l)	(C)	MPV
1215	+/- 0:2.	+/- 3%	+/-10%	+/-10%	+/- 1°C	+/- 10mV
145	10.56	0,070	912.5	5.82	17.92	146.0
		0.1/4	32.9	615	16.75	157(1)
1220	10:00	0.17			1600	1 12 1011
1220	6.16		93.5	5.43		150.8
1232		0,109		5.43	16.66	1000
1220 1222 1232 1236	4.16	0,109			16.66	1000

PURGED APPROXIMATELY 40 MINUTES TO ADDRESS THE POTENTIAL FOR
THE SAMPLING LOCATION AFTER A PRESSURE TANK. STABILIZATION
PARAMETERS APPEAR ACCEPTABLE (EXCLUDING TURBIDITY) FOR THE PINAL
3 READINGS TAKEN.

WELL P	URGE AND S	SAMPLING RECO	RD		_	
	Date:	8/11/04	A	We	11 I.D. <u>Zw</u> (	0804-HESTER
		, , .	"			
Property	Owner:					
Address:		Hester tarn	<u> </u>			
_ ^ ~	Location:	57140T AS 1		152N WEST	BURYER HOR	15.5 HAS NO SPICE
Sampling	•	CARRY BERYIMIN		emore, STA	EY SMICE	<del>27</del>
	al Number 36			ell Condition		
GPS data	JQ - J	1.023"N 78047		eather Conditions	SUNNY	
Static Wa	ter Level	N/A		ference Point		
Well Depth Sounding N/A Reference Point						
Well Cas	ing Diameter	N/A				
		77	_			
Purging N		RUNNING SPIG	01			
Pumping		N/A	Pump I	Depth: N/A		
Sampling						
Name and Address of the Owner, where the Owner, which is the Owner,	lodifications fo	CONTRACTOR OF THE PARTY OF THE			1 3 3 3 4 0 2 4 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Time	Ph	Conductivity	Turbidity	D:O.	Temp.	ORP.
	(Std. Units)	(micro=ohms/cm)	(NTU)	(mg/l)	(°C)	MV
)	+/- 0.2	+/- 3%	+/- 10%	+/-10%	+/- 1°C	+/- 10mV
1505	6.91	0.00	300.8	5.28	21.73	54.6
1508	6.88		3007.6		20.18	
	4.03	0,00	-129.4	2.62		01.6
1510	1,02	0.158			16.59	56.1
1516	402	0,299	8.3	2.85	18,51	56.2
0 1 7	•		· · · / / - · · ·	-		
System D	escription: 5	TART PUDDING 6	1442, STO	P PURGING @	1516.	
			• /	,		
						ŀ
Method a	f Purge Water	Dienosal:	······································			
Comment	•	Disposal: DeAns	TO GROUNS			İ
Comment	3.					

SAMPLING LOCATION POTENTIALLY AFTER PIESSURE TANK. PURGED SECOND STIGOT DIRECTLY TO TANK TO EXPEDITE PURGING PROCESS. STIGOT FROM TANK BECAME DRY AT APPROXIMATELY 1455. TOTAL PURGING TIME WAS APPROXIMATELY 35-40 MINUTES. 10f1

WELL P		SAMPLING RECO	RD	_	7	
	Date:	8/11/04	•	We	III.D. RW68	304-C27
Property	Owner:					
Address:		627B E	ENON RD			
Sampling	Location:	57165 AT	GROW! OF T	PANER, WELL	BEND TRA	LER HAS NO SPIGE
Sampling	Team:					NITH
	al Number			ell Condition		
GPS data	36°14' 49.	555" N 75°46.	31.064" W We	eather Conditions	SIMNY	
Static Water Level		N/A		ference Point		
^	th Sounding	N/A	Re	ference Point		
Well Casing Diameter N/A						
		:2				
Purging N		KUNNING	SP1407 Pump I			
Pumping		N/A	Pump I	Depth: N/A		
Sampling			· · · · · · · · · · · · · · · · · · ·			
THE RESERVE OF THE PARTY.	lodifications fo	The second secon				V NA CONTRACTOR OF CONTRACTOR
Time	Ph (Color)	(micro-ohms/cm)	Turbidity	D.O.	Temp.	ORP
	(Std. Units)	(micro-omns/ent)	(NTU)	(mg/l)	(°C)	MV
)	+/-0.2	+/- 3%	+/-10%	+/-10%	+/- I°C	+/- 10m <b>y</b>
1610	6.77	0,083	168,4	7.38	17.26	139.4
1017	(e.41	0.091	186.9	506	17,34	188.7
1/2/9	4.31	0,061	32le14	5.62	16.42	149.8
11022-	10:30	0.046	1871.1	5.68	16.33	148.16
1000	(Pr. LU	V 10 10	211-1		1000	170.7
			74-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	,		
System D	escription:		2	0:01.11.0	1101	
	St	TART PURGING C	1548. STOP	PURGING @	1024.	
			- /			
Method of	f Purge Water I	Disposal: Dzha	TO GROUND			
Comment		<i>∨ ⊢ ⊢ ⊢ ⊢ ⊢ ⊢ ⊢ ⊢ ⊢ ⊢</i>	, c GROWS			

PURGED APPROXIMATELY 40 MINUTES TO ADDRESS THE DOTENTIAL FOR
THE SAMPLING LOCATION AFTER A PRESSURE TANK STABILIZATION
PARAMETERS APPEAR ACCEPTABLE (EXCLUDING TURBIDAY AND ORP) FOR THE
FINA 3 READINGS TAKEN.

WELL P	URGE AND S	SAMPLING RECOR	RD.					
	Date: _S	5/12/04		We	11 I.D. <u>Ruob</u> a	04-4710		
Property	Oxyman							
Address:	Owner.	4710 MOR	IAH PD	ns	1572			
	Location:		SPIGOT AT WELL BEHAD HOUSE.					
		IMPRIN BEN AMINI RAY LINFOMING STATETI SANITA						
Sampling Team: Well Serial Number			LARRY BEN MININ, KAY LIVERMORE, STACELY SMITH Well Condition GOOP					
GPS data 36°/6'24								
Static Water Level		N/A		erence Point				
Well Depth Sounding		N/A	Ref	erence Point				
Well Cas	ing Diameter	N/A						
		7	_			·		
Purging N		RUNNING 5	71605					
Purging Method:  Pumping Rate:  N/A  Pump Depth: N/A						<del></del>		
Sampling		0 11						
* 14, 1 0 W	lodifications fo		001	D.O.	Te and the	Sp.D		
Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	(mg/l)	Temp.	ORP MV		
	(Sitt. Offits)	(HITE10-Olima/Chi)	(NTC)	(IIIg/I)	( C)	VIV		
),	+/= 0.2	+/-3%	+/- 10%	+/=10%	+/-, 1°C 1	+/10mV		
0757	6.14	0.082	2126.4	4.89	17.73	204.1		
0802	6.25	0.00	1794,8	5.23	18.52	212.3		
0805	6,44	0.00	1541.3	5.11	17.40	216.6		
				:	·			
System D	escription:	ART PURGING E	DOTHE ST	TO PUP OINTE	& DOID			
	71	me i paramee E	20175, 2/0	7 / 424760	200,00			
Method o	f Purge Water 1	Dienosal						
Comment	-	Disposal: OZA7,1	70 GROUND.					
Commicin	J	<del></del>						

RESIDENT EXPRESSED CONCERN ABOUT PUMP LOSING ITS PRIME @ 0755.

I LLERE FOIZE, ONLY DURGED AT A ANGH FLOW RATE UNTIL COLLECTION

OF STATISILIZATION DAZAMETERS (APPROXIMATELY 12 MINUTES).

DAY 4: DIFFICULTY CALIBRATING TURBIDITY AS REFLECTED BY TURBIDITY
READINGS. WATER IS CLEAR.

WELL I	PURGE AND S	SAMPLING RECO	RD		_		
	Date: _<	3/12/04		We	11 I.D. <i>ZW08</i>	04-4769	
					•		
Property			/		0=-40	_	
Address:		4709 MORIAH RD 27572					
	Location:	SPIGOT AS FILL	NT OF HOUSE	WAL BEHIND	HOUSE HAS	NO SPIGOT	
Sampling	•	LAPRY BENJAM	IN RAY LIVER	PMORE, STA	cey smite	<u> </u>	
	ial Number		We	ll Condition	LOCAD		
	36°16'28.		47.08/"W We		CUMOT		
Static Wa	ater Level	N/A		ference Point			
	th Sounding	N/A	Ref	ference Point			
Well Cas	ing Diameter	N/A					
1							
Purging 1		KUNNING "	\$71 <b>60</b> 7 Pump D				
Pumping		N/A	Pump D	epth: N/A			
~	Method:						
THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE OWN	Iodifications fo	Control of the Contro		1		T	
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP	
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l) .	(°C)	MV	
		1/20/	4 400	1 100	7.000	( 10 V	
100	+/-0,2	1-3%	+/-10%	#/-10%	+/- I°C	+/- 10mV	
0903	7.42	0.376	3064.1	7.90	17.62	147.8	
0408	7.41	0.00	-375,1	2.86	17.72	175.0	
0912	7.40	0.371	7032.1	266	17.55	189.4	
0914	7.51	0.00	-499.9	2.32	17,55	194.2	
		ll	·	:	<u> </u>	,	
System D	escription:	ET PURGING @	nada STOD	DURGING Q.	1915		
	2111	or function of	2010. 01	,	110 1		
1							
1							
	0.D	D. 1 Dal :	- (0:				
		Disposal: DRAN METER MAL					
	to:	`					

PURGED APPROXIMATELY 35 MINUTES TO MODRESS THE POTENTIAL FOR THE SAMPLING LOCATION AFTER A PRESSURE TANK.

	WELL P		SAMPLING RECO	RD <sup>-</sup>	We	II I.D. <u>PW08</u>	CA-5057
	Sampling Well Seri GPS data Static Wa Well Dep Well Cast Purging M Pumping Sampling	Location: Team: Tal Number Tal Number The Tevel The Sounding The Diameter Method: Rate: Method:	571667 A5 16 LAPRY BENIM 075" N 78"48 N/A N/A N/A N/A ZUNN'NG STI	MN, RAY LIV We '69.936" W We Ref	PHORE, 50 Ell Condition eather Conditions Ference Point Ference Point		i Trif
= 1/	System M Time )	Odifications for Ph. (Std. Units)  +/-0.2  5.78	Conductivity (micro-ohms/cm) +/-3% 0.245	Turbidity (NTU) +/- 10% 3741.0	D.O. (mg/l) +/-10% 2.08	Temp. (°C) +/- 1°C 10.5 9	ORP MV +/- 1.0mV
μ	0 958 1000 1000	6.21	0.00	3558,7 -278i7	<b>2</b> .77 2.07	16.31	105.3
	Method o	f Purge Water	Disposal: DZAN TO	O GROUND			SUGHTLY

WELL F	PURGE AND S	SAMPLING RECOR	S.D.			
1	Date:	8/12/04		We	11 I.D. <i>RW080</i>	04-564
ļ						
Property						
Address:		564 Bestrar			27572	
	Location:	SPIGOT IN FIZONT	OF SHED. WED	U IN FROM	YAZD 14/3 A	VO SPIGOT
Sampling	g Team:	LARRY BENJAMIN	U, RAYLIVED	MORE, STA	CEY -SMI	t1+
Well Seri	ial Number					
	36°15'17.	546" N 78°4"	9'11.567"NWe	ather Conditions	CIPUDY	
Static Wa	ater Level	N/A	Ref	ference Point		
Well Dep	oth Sounding	N/A	Ref	ference Point		
Well Cas	ing Diameter	N/A				
	,					
Purging 1	Method:	NA SPIGOT	-			
Pumping	Rate:	N/A	Pump D	epth: N/A		
Sampling	Method:					
System N	Modifications for					
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP
	(Std. Units)	(micro-ohnis/em)	(NTU)	(mg/l)	(°C)	MV
<b>)</b>						
	+/- 0.2	+/- 3%	+/10%	+/-10%	-+/- I <sub>o</sub> C	+/- 10my
1040	7-08	0.00	-999,9	2.85	20.76	114.9
1042						
1046						
				;		
System D	escription: 5-	TART PURGING @ 1	0:27 STOP	PULGING Q.	1042	
					10,	
1						
l .						
Method o	f Purge Water 1	Disposal: Daha 7	TO GROUND			
Method o	of Purge Water I	Disposal: Dahn 7	TO GROUND	· · · · · · · · · · · · · · · · · · ·		

PRESSURE THE SAMPLING LOCATION WAS POTENTIALLY LOCATED AFTER A

PRESSURE THE THELEFORE, THE SPIGET WAS PLANED FOR REPUBLING FOR APPROXIMATELY

30-40 MINUTES. HOWENER, AT 1043, FLOW FLOW THE SPIGOT SLOWED AND

STOPPED PERIODICALLY. THE RESIDENT WAS QUESTIQUED AND INDICATED A COUPLE

OF LOADS OF WASH WERE DONE IN THE MORNING WINCH MINY HAVE ACCOUNTED FOR

THE LOW GLOW. AT 1045 THE FLOW STOPPED PERIODICALLY. IT WAS DETERMINED

THE PRESSURE TANK AND WELL LAD BEEN PURSED ADEQUATELY. SAMPLING STARTED

AT 1045.

WELL F	PURGE AND S	SAMPLING RECOR	RD.			
	Date:	8/12/04		We	III.D. RWO	804-6305
		, , , , , , , , , , , , , , , , , , , ,				
Property				2-1		_
Address:		6305 15MM	1 Chambers	Kond		
Sampling	g Location:	SPIGOT AT W	E11 IN 520N.	YILZD		
Sampling	g Team:	CARRY BENGMIN	RAY LIVERIM	OPE, STACE	T-SMITH	
	ial Number			ll Condition	6000	
GPS data	36° 13' 46.	7 <u>83"N 78°46'</u>	17.247"W We	ather Conditions	CLOUDT	
Static Wa	ater Level	N/A	Ref	erence Point		
Well Dep	oth Sounding	N/A	Ref	erence Point		·
Well Cas	ing Diameter	N/A				
		7				
Purging 1		KU. WING 57160T				
Pumping		N/A	Pump D	epth: N/A	W-W	
	g Method:					
***************************************	Modifications fo		4		The second of the first of the second	Lw. r
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP
	(Std. Units)	(micro-ohms/cm)	(NTU)	t (mg/l) =	(°C)	MV
		1/ 20/			70.0	
	+/= 0.2	+/- 3%	+/- 10%	+/-10%	+/- I°C	+/- 10mV
1145	7.07	0.194	3063.4	2.28	17.44	-18.3
1148	6.95	0.193	4650.4	2,55	17:00	-28.2
1150	6.92	0.192	7221:2	250	17.00	-25,2
<u> </u>			···			
	<u> </u>			,		,
System D	Description:		·	0 115	~7	
	DIM	ET PLUEGING @ 11	24. STOP RUI	16/NB & 117	,	
			•			
l						
3 6 4 4	CD 777.	D: 1 731.1	- (2218			
		Disposal: DRAIN TURBIDITY MET				

WELLE		SAMPLING RECO	RD			
	Date:	8/12/04		W	ell I.D. <u>RWOS</u>	04-22.02
			•			
Property				<b>25 4 8</b>		_
Address:		2202 TILL	ey farm,	ROAD		
	g Location:		ELL TO RIGHT	OF HOUSE		
Sampling Team: LUFRY BENJAMIN, RAY LIVERMORE, STACEY SMITH						
Well Seri	ial Number	1 0		ll Condition	(cool)	
GPS data	· 36° 13' 32	L'N 78° 50' Z		ather Condition	s FAINY	
Static Water Level N/A Reference Point						
Well Depth Sounding N/A Reference Point						
Well Casing Diameter N/A						
Purging Method: KUNNING SP1401						
Pumping Rate: N/A Pump Depth: N/A						
Sampling Method:						
No. of Section Association and the Contract of	Modifications fo					
Time	Ph	Conductivity	Turbidity	D.O.	Temp.	ORP
	(Std. Units)	(micro-ohms/cm)	(NTU)	(mg/l)	(°C)	MV
)		7.07		7100	V 100	10.07
1101-	+/0.2	+/- 3%	+/- 10%	+/=10%	+/- L°C	+/- 10mV
1245	6,21	0.054	-999.9	6.42	16.48	167.0
1248	4.15	0.023	-999.9	2.45	16.07	183.
1250	leiob	0.051	53493	4401	1608	1963
					-	
			·			
	<u></u>					,
System Description:						
START PURGING @ 1226, STOP PURGING @ 1250.						
Method of Purge Water, Disposal: DRAN TO GRUUN						
Mothad -	f Durge Weter	Diamonali Dale	~ / 2-11. N			
		Disposal: DRAN - TURBIDITY METE		TMALLA 16		